General Engineering Services & Local Government Pool July 1, 2007 through June 30, 2009

6/14/2007 (Revised 8/31/07)

Contact for additional information:

Gaye Hettrick, CPM Consultant Services Manager 801-965-4639 ghettrick@utah.gov General Engineering Services & Local Government Pool July 1, 2007 through June 30, 2009 Rev. 6/6/07

WORK DISCIPLINES

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2	Bridge Design	16	Pavement Design							
3	Bridge Management / Asset Management	17	Planning							
4	Constructability Review	18	Preconstruction Engineering							
5	Construction Engineering Management	19	Public Involvement – Operations / Project / NEPA							
6	Dispute Resolution Review	20	Research/Studies/New Development							
7	Environmental/NEPA Document Preparation	21	Right of Way Engineering							
	*Sub-Categories									
8	Geotechnical/Hydrogeology	22	Schedule Analysis & Claims Review							
9	Hazardous Materials / Waste Assessment and	23	Subsurface Utility Engineering							
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10	Intelligent Transportation Systems	24	Surveying / Mapping							
	*Sub-Categories									
11	Landscape Architecture	25	Traffic Signals / Roadway Lighting							
			*Sub-Categories							
12	Major Hydraulic Design	26	Value Engineering							
13	Materials Testing	27	Visualization 2D/3D/4D							
14	Minor Structure Design									

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Aerial Photogrammetry

Firm - Individual Name	Contact Person	Phone Number	Fax Number	Email	Address
Aero-Graphics, Inc.	Kelly Francis	801/428-3102	801/487-3313	kfrancis@aero-graphics.com	40 West Oakland Avenue, Salt Lake City, UT 84115
Carter & Burgess, Inc.	Andrew F. Gemperline	801/355-1112	801/355-3990	andrew.gemperline@c-b.com	155 North 400 West Suite 550, Salt Lake City, UT 84103-1130
Intermountain Aerial Surveys	Tom O. McCullough	801/972-5932	801/972-0501	tom@ias-map.com	2078 West 2300 South, Salt Lake City, UT 84119
Mapcon Mapping, Inc.	Phillip S Floor	801/277-9853	801/277-6219	phill@mapconmapping.com	4545 South 2300 East, Salt Lake City, UT 84117
Wilson & Company	Michael King	801/910-1811	801/364-0676	michael.king@wilsonco.com	8 East Broadway Suite 300, Salt Lake City, UT 84111

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Bridge Design

Firm - Individual Name	Contact Person	Phone Number	Fax Number	Email	Address
Carter & Burgess, Inc.	Andrew F. Gemperline	801/355-1112	801/355-3990	andrew.gemperline@c-b.com	155 North 400 West Suite 550, Salt Lake City, UT 84103-1130
CIVCO Engineering, Inc.	Troy D. Ostler	435/789-5448	435/789-4485	troyostler@civcoengineering.com	1256 West 400 South Suite 1, PO Box 1758, Vernal, UT 84078
Civil Science	Kyle J. Comer	801/768-7200 X 139	801/768-7201	kcomer@civilscience.com	3160 West Clubhouse Drive, Lehi, UT 84043
DMJM Harris, Inc.	Jay Nelson	801/569-2131	801/569-2149	jay.nelson@dmjmharris.com	935 East South Union Avenue Suite D203, Midvale, UT 84047
H W Lochner, Inc.	Tyler Robirds	801/262-8700	801/262-8885	trobirds@hwlochner.com	310 East 4500 South Suite 600, Salt Lake City, UT 84107
Hatch Mott MacDonald	Dan Isom	801/655-0468	801/655-0656	dan.isom@hatchmott.com	1801 North 1120 West, Provo, UT 84604
HDR Engineering, Inc.	Carmen Swanwick	801/743-7830	801/743-7878	carmen.swanwick@hdrinc.com	3995 South 700 East Suite 100, Salt Lake City, UT 84107
HNTB Corporation	Richard Johnson	801/656.2101	801/656-2101	dforbes@hntb.com	257 East 200 South Suite 760, Salt Lake City, UT 84111
Horrocks Engineers	Larry Reasch	801/763-5100	801/763-5101	larry@horrocks.com	1 West Main, PO Box 377, American Fork, UT 84003
Jones & DeMille Engineering	Brian R. Barton	435/896-8266	435/896-8268	brian@jonesanddemille.com	1535 South 100 West, Richfield, UT 84701
J-U-B Engineers, Inc.	Michael F. Worrall	801/886-9052	801/886-9123	mworrall@jub.com	2875 South Decker Lake Drive Suite 575, Salt Lake City, UT 84119
Keller Associates, Inc.	Jim Mullen	208/238-2146	208/238-2162	jmullen@kellerassociates.com	412 West Center Suite 330, Pocatello, ID 83204
Michael Baker Jr., Inc.	Jim Deschenes	801/352-5988	801/255-0404	jdeschenes@mbakercorp.com	6955 Union Park Center Suite 370, Midvale, UT 84047
Morrison Maierle, Inc.	Brad Peterson	801/495-7431	801/495-7445	bpeterson@m-m.net	10619 South Jordan Gateway Suite 110, South Jordan, UT 84095
Parsons Transportation Group	Handi Mulia	801/553-3319	801/572-9069	handi.mulia@parsons.com	406 West South Jordan Parkway Suite 300, South Jordan, UT 84095
PB Americas, Inc.	Dan Church	801/288-3224	801/262-4303	churchd@pbworld.com	488 East Winchester Street, Murray, UT 84107
Project Engineering Consultants, Ltd.	Gary Horton	801/492-4240	801/495-4244	gary@pecutah.com	8819 South Redwood Road Suite C, West Jordan, UT 84088
RB&G Engineering, Inc.	Scott Hendricks	801/374-5771	801/374-5773	shendricks@rbgengineering.com	1435 West 820 North, Provo, UT 84601-1343
Sargent Engineers, Inc.	Craig L. Rasmussen	435/753-7214	435/753-7295	craigr@sargentengineers.com	95 West 100 South Suite 115, Logan, UT 84321
Stanley Consultants, Inc.	Paul Blackham	801/293-8880	801/293-8886	blackhampaul@stanleygroup.com	5353 South 960 East Suite 220, Salt Lake City, UT 84117
Stantec Consulting, Inc.	Benan Zahawi	801/261-0090	801/266-1671	benan.zahawi@stantec.com	3995 South 700 East Suite 300, Salt Lake City, UT 84107
T Y Lin International	Daniel Heller	480/968-8814	480/921-0002	dheller@tylin.com	80 East Rio Salado Parkway Suite 611, Tempe, AZ 85281
URS Corporation	Craig Parent	801/904-4000	801/904-4100	rachel_mcquillen@urscorp.com	756 East Winchester Street Suite 400, Salt Lake City, UT 84107
Ward Engineering Group	Satter N. Tabriz	801/487-8040 X 201	801/487-8668	stabriz@wardeg.com	231 West 800 South Suite A, Salt Lake City, UT 84101
Washington Group International	D.L. "Mac" McOmber	208/386-5571	208/386-6050	mac.mcomber@wgint.com	720 Park Boulevard, Boise, ID 83712
Wilbur Smith Associates	Barry V. Banks	801/363-3955	801/363-3972	bbanks@wilbursmith.com	257 East 200 South Suite 825, Salt Lake City, UT 84111
Wilson & Company	Michael King	801/910-1811	801/364-0676	michael.king@wilsonco.com	8 East Broadway Suite 300, Salt Lake City, UT 84111

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Bridge Management / Asset Management

Firm - Individual Name	Contact Person	Phone Number	Fax Number	Email	Address
Ayres Associates, Inc.	Andrew R. Fickett	813/978-8688	813/978-9369	ficketta@ayresassociates.com	8875 Hidden River Parkway Suite 200, Tampa, FL 33637
Carter & Burgess, Inc.	Andrew F. Gemperline	801/355-1112	801/355-3990	andrew.gemperline@c-b.com	155 North 400 West Suite 550, Salt Lake City, UT 84103-1130
Civil Science	Mark Clark	801/768-7200 X 132	801/768-7201	mclark@civilscience.com	3160 West Clubhouse Drive, Lehi, UT 84043
Earth Tech, Inc.	Ron Pierce	602/650-4334	602/279-1334	ron.pierce@earthtech.com_	112 North Central Avenue Suite 450, Phoenix, AZ 85004
Forsgren Associates, Inc.	George Deneris	801/364-4785	801/364-4802	gdeneris@forsgren.com	370 East 500 South Suite 200, Salt Lake City, UT 84111
HDR Engineering, Inc.	Carmen Swanwick	801/743-7830	801/743-7878	carmen.swanwick@hdrinc.com	3995 South 700 East Suite 100, Salt Lake City, UT 84107
Infrastructure Engineners, Inc.	Sean Patrick	412/257-2898	412/257-0139	spatrick@infrastructureengineers.com	1370 Washington Pike Suite 102, Bridgeville, PA 15017
iWorQ Systems, Inc.	Garyn Perrett	435/755-5126	435/487-9285	gperrett@iworq.com	PO Box 3784, Logan, UT 84323
Michael Baker Jr., Inc.	Jim Deschenes	801/352-5988	801/255-0404	jdeschenes@mbakercorp.com	6955 Union Park Center Suite 370, Midvale, UT 84047
Wilbur Smith Associates	Barry V. Banks	801/363-3955	801/363-3972	bbanks@wilbursmith.com	257 East 200 South Suite 825, Salt Lake City, UT 84111

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Constructability Review

Firm - Individual Name	Contact Person	Phone Number	Fax Number	Email	Address
Caldwell Richards Sorensen	William N. Gooch	801/673-8205	801/359-4272	bill.gooch@crsengineers.com	2060 East 2100 South, Salt Lake City, UT 84109
Carter & Burgess, Inc.	Andrew F. Gemperline	801/355-1112	801/355-3990	andrew.gemperline@c-b.com	155 North 400 West Suite 550, Salt Lake City, UT 84103-1130
CIVCO Engineering, Inc.	Troy D. Ostler	435/789-5448	435/789-4485	troyostler@civcoengineering.com	1256 West 400 South Suite 1, PO Box 1758, Vernal, UT 84078
Harris & Associates	Dennis Anderson	801/521-8564	801/355-2938	deanderson@harris-assoc.com	265 East 100 South Suite 350, Salt Lake City, UT 84111
Jones & DeMille Engineering	Thomas R. Christensen	435/896-8266	435/896-8268	tom@jonesanddemille.com	1535 South 100 West, Richfield, UT 84701
J-U-B Engineers, Inc.	Michael F. Worrall	801/886-9052	801/886-9123	mworrall@jub.com	2875 South Decker Lake Drive Suite 575, Salt Lake City, UT 84119
Michael Baker Jr., Inc.	Jim Deschenes	801/352-5988	801/255-0404	jdeschenes@mbakercorp.com	6955 Union Park Center Suite 370, Midvale, UT 84047
Nolte Associates, Inc.	Curt McCuistion	801/743-1300	801/743-0300	curt.mccuistion@nolte.com	5217 South State Street Suite 300, Salt Lake City, UT 84107
Parsons Transportation Group	Eric Ostfeld	801/618-9858	801/572-9069	eric.ostfeld@parsons.com	406 West South Jordan Parkway Suite 300, South Jordan, UT 84095
PB Americas, Inc.	Larry Migliaccio	801/288-3205	801/262-4303	migliaccio@pbworld.com	488 East Winchester Street, Murray, UT 84107
Project Engineering Consultants, Ltd.	Gary Horton	801/492-4240	801/495-4244	gary@pecutah.com	8819 South Redwood Road Suite C, West Jordan, UT 84088
RB&G Engineering, Inc.	Scott Hendricks	801/374-5771	801/374-5773	shendricks@rbgengineering.com	1435 West 820 North, Provo, UT 84601-1343
Stanley Consultants, Inc.	Will Reeves	801/293-8880	801/293-8886	reeveswill@stanleygroup.com	5353 South 960 East Suite 220, Salt Lake City, UT 84117
Stanton Constructability Services, Inc.	Gary Stanton	801/942-2170	801/298-9725	gdarstan@comcast.net	8013 Hunters Meadow Circle, Sandy, UT 84093
Trauner Consulting Services, Inc.	Glenn Cheek	619/640-8500	619/640-8501	glenn.cheek@traunerconsulting.com_	3111 Camino del Rio North Suite 1350, San Diego, CA 92108
Ward Engineering Group	Satter N. Tabriz	801/487-8040 X 201	801/487-8668	stabriz@wardeg.com	231 West 800 South Suite A, Salt Lake City, UT 84101
Wilson & Company	Michael King	801/910-1811	801/364-0676	michael.king@wilsonco.com	8 East Broadway Suite 300, Salt Lake City, UT 84111

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Construction Engineering Management

Firm - Individual Name	Contact Person	Phone Number	Fax Number	Email	Address
Bulloch Brothers Engineering, Inc.	Les Whitmore	435/586-9592	435/586-4995	les@bullochbrothers.com	PO Box 3174, Cedar City, UT 84721
Caldwell Richards Sorensen	William N. Gooch	801/673-8205	801/359-4272	bill.gooch@crsengineers.com	2060 East 2100 South, Salt Lake City, UT 84109
Carter & Burgess, Inc.	Andrew F. Gemperline	801/355-1112	801/355-3990	andrew.gemperline@c-b.com	155 North 400 West Suite 550, Salt Lake City, UT 84103-1130
CIVCO Engineering, Inc.	Troy D. Ostler	435/789-5448	435/789-4485	troyostler@civcoengineering.com	1256 West 400 South Suite 1, PO Box 1758, Vernal, UT 84078
Civil Science	Kyle J. Comer	801/768-7200 X 139	801/768-7201	kcomer@civilscience.com	3160 West Clubhouse Drive, Lehi, UT 84043
Creamer & Noble Engineers	D. James Snyder	435/673-4677	435/673-8484	djsnyder@creamerandnoble.com	435 East Tabernacle Street Suite 202, St George, UT 84770
Forsgren Associates, Inc.	George Deneris	801/364-4785	801/364-4802	gdeneris@forsgren.com	370 East 500 South Suite 200, Salt Lake City, UT 84111
H W Lochner, Inc.	Tyler Robirds	801/262-8700	801/262-8885	trobirds@hwlochner.com	310 East 4500 South Suite 600, Salt Lake City, UT 84107
Harris & Associates	Dennis Anderson	801/521-8564	801/355-2938	deanderson@harris-assoc.com	265 East 100 South Suite 350, Salt Lake City, UT 84111
HDR Engineering, Inc.	Keith Quernemoen	801/383-3138	801/383-3106	keith.quernemoen@hdrinc.com	3995 South 700 East Suite 100, Salt Lake City, UT 84107
HNTB Corporation	D Carl Warnock	801/656.2101	801/656-2101	dforbes@hntb.com	257 East 200 South Suite 760, Salt Lake City, UT 84111
Horrocks Engineers	Rex Harrison	801/763-5100	801/763-5101	rex@horrocks.com	1 West Main, PO Box 377, American Fork, UT 84003
Johansen & Tuttle Engineering, Inc.	Craig Johansen	435/381-2523	435/381-2522	jt@etv.net	90 South 100 East, Castle Dale, UT 84513
Jones & Associates Consulting Engineers	Greg Seegmiller	801/476-9767	801/476-9768	gregs@jonescivil.com	1716 East 5600 South, Ogden, UT 84403
Jones & DeMille Engineering	Kary Monroe	435/896-8266	435/896-8268	kary@jonesanddemille.com	1535 South 100 West, Richfield, UT 84701
J-U-B Engineers, Inc.	Michael F. Worrall	801/886-9052	801/886-9123	mworrall@jub.com	2875 South Decker Lake Drive Suite 575, Salt Lake City, UT 84119
Kirkham Michael Consulting Engineers	Duane Eitel	602/944-6564	602/944-6592	deitel@kirkham.com	9201 North 25th Avenue Suite 150, Phoenix, AZ 85021-2722
M W Brown Engineering, Inc.	Russell O. Brown	801/377-1790	801/377-1789	rbrown@mwbrownengineering.com	31 South 400 West, Orem, UT 84058
Meridian Engineering, Inc.	Steven C. Johnson	801/569-1315	801/569-1319	sjohnson@merid-eng.com	9217 South Redwood Road Suite A, West Jordan, UT 84088
Nolte Associates, Inc.	Curt McCuistion	801/743-1300	801/743-0300	curt.mccuistion@nolte.com	5217 South State Street Suite 300, Salt Lake City, UT 84107
Parsons Transportation Group	Eric Ostfeld	801/618-9858	801/572-9069	eric.ostfeld@parsons.com	406 West South Jordan Parkway Suite 300, South Jordan, UT 84095
PB Americas, Inc.	Larry Migliaccio	801/288-3205	801/262-4303	migliaccio@pbworld.com	488 East Winchester Street, Murray, UT 84107
Project Engineering Consultants, Ltd.	Gary Horton	801/492-4240	801/495-4244	gary@pecutah.com	8819 South Redwood Road Suite C, West Jordan, UT 84088
Psomas	Andrew N. Gust	916/788-8122	916/788-0800	agust@psomas.com	1075 Creekside Ridge Drive Suite 200, Roseville, CA 95678
RB&G Engineering, Inc.	Scott Hendricks	801/374-5771	801/374-5773	shendricks@rbgengineering.com	1435 West 820 North, Provo, UT 84601-1343
Sargent Engineers, Inc.	Craig L. Rasmussen	435/232-7265	435/753-7295	craigr@sargentengineers.com	95 West 100 South Suite 115, Logan, UT 84321
Stanley Consultants, Inc.	Will Reeves	801/293-8880	801/293-8886	reeveswill@stanleygroup.com	5353 South 960 East Suite 220, Salt Lake City, UT 84117
Stantec Consulting, Inc.	Steve Yorgason	801/261-0090	801/266-1671	steve.yorgason@stantec.com	3995 South 700 East Suite 300, Salt Lake City, UT 84107
SUE Solutions, Inc.	Robert Ramsey	801/407-8700 X202	801/404-8701	rramsey@suesolutions.com	3160 West Clubhouse Drive, Lehi Suite D, UT 84043
Sunrise Engineering, Inc.	Kim E. Wilson	801/523-0100	801/523-0990	kwilson@sunrise-eng.com	12227 South Business Park Drive Ste 220, Draper, UT 84020
URS Corporation	Rachel A.B. McQuillen	801/904-4000	801/904-4100	rachel_mcquillen@urscorp.com	756 East Winchester Street Suite 400, Salt Lake City, UT 84107
Ward Engineering Group	Satter N. Tabriz	801/487-8040 X 201	801/487-8668	stabriz@wardeg.com	231 West 800 South Suite A, Salt Lake City, UT 84101
Wilson & Company	Michael King	801/910-1811	801/364-0676	michael.king@wilsonco.com	8 East Broadway Suite 300, Salt Lake City, UT 84111

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Dispute Resolution Review

Firm - Individual Name	Contact Person	Phone Number	Fax Number	Email	Address
Carter & Burgess, Inc. (Phil Collin)	Andrew F. Gemperline	801/355-1112	801/355-3990	andrew.gemperline@c-b.com	155 North 400 West Suite 550, Salt Lake City, UT 84103-1130
PBS&J (Robert Hundley)	Gary Self	800/497-5529	303/221-7276	grself@pbsj.com	4601 DTC Boulevard Suite 700, Denver, CO 80237
PinnacleOne (Brian Coyne)	Stephanie Turk	213/486-9884	213/486-9894	sturk@PinnacleOne.com	445 South Figueroa Street Suite 3650, Los Angeles, CA 90071
PinnacleOne (Bryan Forbes)	Stephanie Turk	213/486-9884	213/486-9894	sturk@PinnacleOne.com	445 South Figueroa Street Suite 3650, Los Angeles, CA 90071
PinnacleOne (Jeff DeFeo)	Stephanie Turk	213/486-9884	213/486-9894	sturk@PinnacleOne.com	445 South Figueroa Street Suite 3650, Los Angeles, CA 90071
PinnacleOne (Joseph Seibold)	Stephanie Turk	213/486-9884	213/486-9894	sturk@PinnacleOne.com	445 South Figueroa Street Suite 3650, Los Angeles, CA 90071
PinnacleOne (Mark Guevara)	Stephanie Turk	213/486-9884	213/486-9894	sturk@PinnacleOne.com	445 South Figueroa Street Suite 3650, Los Angeles, CA 90071
PinnacleOne (Scott Tidemann)	Stephanie Turk	213/486-9884	213/486-9894	sturk@PinnacleOne.com	445 South Figueroa Street Suite 3650, Los Angeles, CA 90071
PinnacleOne (Stephanie Turk)	Stephanie Turk	213/486-9884	213/486-9894	sturk@PinnacleOne.com	445 South Figueroa Street Suite 3650, Los Angeles, CA 90071
PinnacleOne (Steve Davis)	Stephanie Turk	213/486-9884	213/486-9894	sturk@PinnacleOne.com	445 South Figueroa Street Suite 3650, Los Angeles, CA 90071
PinnacleOne (Sudhir Damle)	Stephanie Turk	213/486-9884	213/486-9894	sturk@PinnacleOne.com	445 South Figueroa Street Suite 3650, Los Angeles, CA 90071
PinnacleOne (Thomas Walters)	Stephanie Turk	213/486-9884	213/486-9894	sturk@PinnacleOne.com	445 South Figueroa Street Suite 3650, Los Angeles, CA 90071
RB&G Engineering, Inc. (Bradford Price)	Bradford E. Price	801/374-5771	801/374-5773	bprice@rbgengineering.com	1435 West 820 North, Provo, UT 84601-1343
Ruf & Associates, LLC (Harold B. Ruf)	Harold B. Ruf	801/764-9100	866/589-8871	hruf@rufassociates.com	510 East 770 North, Orem, UT 84097
Trauner Consulting Serivces, Inc. (Ken Baker)	Ken Baker	619/640-8500	619/640-8501	sandiego@traunerconsulting.com	3111 Camino del Rio North Suite 1350, San Diego, CA 92108-
Trauner Consulting Serivces, Inc. (Ted Trauner)	Glenn Cheek	619/640-8500	619/640-8501	glenn.cheek@traunerconsulting.com	3111 Camino del Rio North Suite 1350, San Diego, CA 92108

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Environmental - Air Quality

Firm - Individual Name	Contact Person	Phone Number	Fax Number	Email	Address
BIO-West, Inc.	S. Blaise Chanson	435/752-4202	435/757-0507	bchanson@bio-west.com	1063 West 1400 North, Logan, UT 84321
HDR Engineering, Inc.	Heidi Spoor	801/743-7802	801/743-7878	heidi.spoor@hdrinc.com	3995 South 700 East Suite 100, Salt Lake City, UT 84107
HNTB Corporation	Deborah Taylor	801/656.2101	801/656-2101	dforbes@hntb.com	257 East 200 South Suite 760, Salt Lake City, UT 84111
Horrocks Engineers	Stan Jorgensen	801/763-5100	801/763-5101	stan@horrocks.com	1 West Main, PO Box 377, American Fork, UT 84003
InterPlan Co.	Matt Riffkin	801/307-3400	801/307-3451	matt@interplanco.com	7719 South Main Street, Midvale, UT 84047
Jones & Stokes	Bobby Tuttle	801/521-2085	801/531-7669	btuttle@jsanet.com	9 Exchange Place Suite 401, Salt Lake City, UT 84111
Kennedy/Jenks Consultants	Jan Kirk	801/474-9615	801/474-9621	jankirk@kennedyjenks.com	2180 South 1300 East Suite 310, Salt Lake City, UT 84106
Kleinfelder West, Inc.	Corinne Hillard	801/261-3336	801/261-3306	chillard@kleinfelder.com	849 West Levoy Drive, Salt Lake City, UT 84123
Michael Baker Jr., Inc.	Jim Deschenes	801/352-5988	801/255-0404	jdeschenes@mbakercorp.com	6955 Union Park Center Suite 370, Midvale, UT 84047
PB Americas, Inc.	Ron Clegg	801/288-3228	801/262-4303	clegg@pbworld.com	488 East Winchester Street, Murray, UT 84107
URS Corporation	Rachel A.B. McQuillen	801/904-4000	801/904-4100	rachel mcquillen@urscorp.com	756 East Winchester Street Suite 400, Salt Lake City, UT 84107
Wilbur Smith Associates	Barry V. Banks	801/363-3955	801/363-3972	bbanks@wilbursmith.com	257 East 200 South Suite 825, Salt Lake City, UT 84111
Wilson & Company	Michael King	801/910-1811	801/364-0676	michael.king@wilsonco.com	8 East Broadway Suite 300, Salt Lake City, UT 84111

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Environmental - Archaeology / Ethnography / Paleontology

Firm - Individual Name	Contact Person	Phone Number	Fax Number	Email	Address
AMEC Earth & Environmental, Inc.	Kathy M. Harris	801/999-2002	801/999-2035	kathy.harris@amec.com	9865 South 500 West, Sandy, UT 84070
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Entrix, Inc.	Craig Smith	801/712-6183		csmith@entrix.com	PO Box 58782, Salt Lake City, UT 84158
Jones & Stokes	Bobby Tuttle	801/521-2085	801/531-7669	btuttle@jsanet.com	9 Exchange Place Suite 401, Salt Lake City, UT 84111
Logan Simpson Design, Inc.	Daniel Mullins	801/364-0525	801/364-0676	dmullins@lsdut.com	8 East Broadway Suite 300, Salt Lake City, UT 84111
Montgomery Archaeological Consultants, Inc.	Keith Montgomery	435/259-5764	435/259-5608	kmontgomery@montarch.com	PO Box 219, Moab, UT 8453
Sagebrush Consultants, LLC	Michael R. Polk	801/394-0013	801/394-0032	sageb@sagebrushconsultants.com	3670 Quincy Avenue Suite 203, Ogden, UT 84403
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URS Corporation	Rachel A.B. McQuillen	801/904-4000	801/904-4100	rachel_mcquillen@urscorp.com	756 East Winchester Street Suite 400, Salt Lake City, UT 84107
Western Land Services	Wendy Stokes	435-896-5501	435/896-5515	wendy.stokes@westernls.com	195 N 100 E, Richfield, UT 84701

Pool: General Engineering Services and Local Government. Period: July 1, 2007 through June 30, 2009

Environmental - Biological / Wildlife

Firm - Individual Name	Contact Person	Phone Number	Fax Number	Email	Address
BIO-West, Inc.	S. Blaise Chanson	435/752-4202	435/757-0507	bchanson@bio-west.com	1063 West 1400 North, Logan, UT 84321
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Horrocks Engineers	Stan Jorgensen	801/763-5100	801/763-5101	stan@horrocks.com	1 West Main, PO Box 377, American Fork, UT 84003
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Pool: General Engineering Services and Local Government. Period: July 1, 2007 through June 30, 2009

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Pool: General Engineering Services and Local Government. Period: July 1, 2007 through June 30, 2009

Environmental - Environmental Assessment

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Pool: General Engineering Services and Local Government. Period: July 1, 2007 through June 30, 2009

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Pool: General Engineering Services and Local Government. Period: July 1, 2007 through June 30, 2009

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Pool: General Engineering Services and Local Government. Period: July 1, 2007 through June 30, 2009

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Pool: General Engineering Services and Local Government. Period: July 1, 2007 through June 30, 2009

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Pool: General Engineering Services and Local Government. Period: July 1, 2007 through June 30, 2009

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Pool: General Engineering Services and Local Government. Period: July 1, 2007 through June 30, 2009

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Pool: General Engineering Services and Local Government. Period: July 1, 2007 through June 30, 2009

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Pool: General Engineering Services and Local Government. Period: July 1, 2007 through June 30, 2009

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ITS Engineers & Constructors, Inc.	Martin Glaubitz	801/558-8508	801/612-4097	martinglaubitz@gmail.com	836 E Harrison Avenue, Salt Lake City, UT 84105
Kimley-Horn and Associates, Inc.	Pierre Pretorius	602/906-1166	602/944-7423	pierre.pretorius@kimley-horn.com	7878 N 16th Street Ste 300, Phoenix, AZ 85020
Siemens ITS	Peter S. Marshall	801/539-4789	801/533-8004	peter.marshall@itssiemens.com	Stonewater Park, 215 N. Admiral Byrd Road, Salt Lake City, Utah 84116
TransCore ITS, LLC	John K. Grant	801/293-1920	801/293-1921	john.grant@transcore.com	2401 South 1070 West, Suite 16-B, West Valley City, UT 84119

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Landscape Architecture

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Carter & Burgess, Inc.	Andrew F. Gemperline	801/355-1112	801/355-3990	andrew.gemperline@c-b.com	155 North 400 West Suite 550, Salt Lake City, UT 84103-1130
EPG, Inc.	Michael Doyle	801/746-4457	801/746-3596	mdoyle@epgaz.com	247 South 500 East, Salt Lake City, UT 84102
G Brown Design Inc.	Jerry Brown	801/575-6066	801/575-6166	jerry@gbrowndesign.com	610 East South Temple, Suite 50, Salt Lake City, Utah 84102
GSBS	Steve Smith	801/521-8600	801/521-7913	bjorgensen@gsbs-pc.com	375 West 200 South, Salt Lake City, Utah 84109
HNTB Corporation	Craig Churchward	801/656.2101	801/656-2101	dforbes@hntb.com	257 East 200 South Suite 760, Salt Lake City, UT 84111
Landmark Design	Jan Striefel	801/474-3300	801/474-3303	JanS@LDI-UT.com	2834 Highland Drive, Salt Lake City, Utah 84106
Logan Simpson Design, Inc.	Daniel Mullins	801/364-0525	801/364-0676	dmullins@lsdut.com	8 East Broadway Suite 300, Salt Lake City, UT 84111
MGB+A	Jay Bollwinkel	801/364-9696	801/364-9719	jayb@grassligroup.com	145 West 200 South, Salt Lake City, Utah 84101
Project Engineering Consultants, Ltd.	Gary Horton	801/492-4240	801/495-4244	gary@pecutah.com	8819 South Redwood Road Suite C, West Jordan, UT 84088
Psomas	Jamie Tsandes	801/270-5777	801/270-5782	itsandes@psomas.com	4179 South Riverboat Road Suite 200, Salt Lake City, UT 84123
Stantec Consulting, Inc.	Alan Weaver	801/261-0090	801/266-1671	alan.weaver@stantec.com	3995 South 700 East Suite 300, Salt Lake City, UT 84107
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Major Hydraulic Design

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Creamer & Noble Engineers	D. James Snyder	435/673-4677	435/673-8484	djsnyder@creamerandnoble.com	435 East Tabernacle Street Suite 202, St George, UT 84770
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H W Lochner, Inc.	Tyler Robirds	801/262-8700	801/262-8885	trobirds@hwlochner.com	310 East 4500 South Suite 600, Salt Lake City, UT 84107
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Sunrise Engineering, Inc.	Kim E. Wilson	801/523-0100	801/523-0990	kwilson@sunrise-eng.com	12227 South Business Park Drive Ste 220, Draper, UT 84020
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IGES Ingenieros, LLC	Hiram Alba	801/501-0583	801/801-0584	hiram@iges-llc.com	781 West 14600 South, Bluffdale, Utah 84065
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Jones & DeMille Engineering	Ked Nielsen	435/896-8266	435/896-8268	ked@jonesanddemille.com	1535 South 100 West, Richfield, UT 84701
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Minor Structure Design

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Stantec Consulting, Inc.	Benan Zahawi	801/261-0090	801/266-1671	benan.zahawi@stantec.com	3995 South 700 East Suite 300, Salt Lake City, UT 84107
Sunrise Engineering, Inc.	Kim E. Wilson	801/523-0100	801/523-0990	kwilson@sunrise-eng.com	12227 South Business Park Drive Ste 220, Draper, UT 84020
TransCore ITS, LLC	John K. Grant	801/293-1920	801/293-1921	john.grant@transcore.com	2401 South 1070 West, Suite 16-B, West Valley City, UT 84119
URS Corporation	Rachel A.B. McQuillen	801/904-4000	801/904-4100	rachel mcquillen@urscorp.com	756 East Winchester Street Suite 400, Salt Lake City, UT 84107
Ward Engineering Group	Satter N. Tabriz	801/487-8040 X 201	801/487-8668	stabriz@wardeg.com	231 West 800 South Suite A, Salt Lake City, UT 84101
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Pavement Design

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Creamer & Noble Engineers	D. James Snyder	435/673-4677	435/673-8484	djsnyder@creamerandnoble.com	435 East Tabernacle Street Suite 202, St George, UT 84770
Jones & DeMille Engineering	Brian R. Barton	435/896-8266	435/896-8268	brian@jonesanddemille.com	1535 South 100 West, Richfield, UT 84701
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RB&G Engineering, Inc.	Scott Hendricks	801/374-5771	801/374-5773	shendricks@rbgengineering.com	1435 West 820 North, Provo, UT 84601-1343
Terracon Consultants, Inc.	Rick L. Chesnut	801/879-3099	801/545-8600	rlchesnut@terracon.com	12217 South Lone Peak Parkway Suite 100, Draper, Utah 84020

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Planning

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Fehr & Peers	Jon Nepstad	801/463-7600	801/486-4638	j.nepstad@fehrandpeers.com	2180 South 1300 East Suite 220, Salt Lake City, UT 84106
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HNTB Corporation	Ronald Holmes	801/656.2101	801/656-2101	dforbes@hntb.com	257 East 200 South Suite 760, Salt Lake City, UT 84111
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J-U-B Engineers, Inc.	Michael F. Worrall	801/886-9052	801/886-9123	mworrall@jub.com	2875 South Decker Lake Drive Suite 575, Salt Lake City, UT 84119
Kimley-Horn and Associates, Inc.	Pierre Pretorius	602/906-1166	602/944-7423	pierre.pretorius@kimley-horn.com	7878 N 16th Street Ste 300, Phoenix, AZ 85020
Kittelson & Associates, Inc.	Andrew Daleiden	208/338-2683	208/338-2685	adaleiden@kittelson.com	101 South Capitol Blvd Ste 301, Boise, ID 83702
Landmark Design	Jan Striefel	801/474-3300	801/474-3303	JanS@LDI-UT.com	2834 Highland Drive, Salt Lake City, Utah 84106
MGB+A	Jay Bollwinkel	801/364-9696	801/364-9719	jayb@grassligroup.com	145 West 200 South, Salt Lake City, Utah 84101
Michael Baker Jr., Inc.	Jim Deschenes	801/352-5988	801/255-0404	jdeschenes@mbakercorp.com	6955 Union Park Center Suite 370, Midvale, UT 84047
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Preconstruction Engineering

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Carter & Burgess, Inc.	Andrew F. Gemperline	801/355-1112	801/355-3990	andrew.gemperline@c-b.com	155 North 400 West Suite 550, Salt Lake City, UT 84103-1130
CIVCO Engineering, Inc.	Troy D. Ostler	435/789-5448	435/789-4485	troyostler@civcoengineering.com	1256 West 400 South Suite 1, PO Box 1758, Vernal, UT 84078
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Horrocks Engineers	Russell Youd	801/763-5100	801/763-5101	russell@horrocks.com	1 West Main, PO Box 377, American Fork, UT 84003
Johansen & Tuttle Engineering, Inc.	Craig Johansen	435/381-2523	435/381-2522	jt@etv.net	90 South 100 East, Castle Dale, UT 84513
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UDOT Consultant Services

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<u>UDOT Consultant Services</u>

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H W Lochner, Inc.	Tyler Robirds	801/262-8700	801/262-8885	trobirds@hwlochner.com	310 East 4500 South Suite 600, Salt Lake City, UT 84107
HDR Engineering, Inc.	Brent Jensen	801/743-7809	801/743-7878	brent.jensen@hdrinc.com	3995 South 700 East Suite 100, Salt Lake City, UT 84107
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URS Corporation	Andy Powell	801/904-4000	801/904-4100	andy powell@urscorp.com	756 East Winchester Street Suite 400, Salt Lake City, UT 84107
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UDOT Consultant Services

Pool: General Engineering Services and Local Government. Period: July 1, 2007 through June 30, 2009

Value Engineering

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				<u>-</u>	

<u>UDOT Consultant Services</u>

Pool: General Engineering Services and Local Government. Period: July 1, 2007 through June 30, 2009

Visualization

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HDR Engineering, Inc.	Shawn Frye	801/743-7819	801/743-7878	Shawn.Frye@hdrinc.com	3995 South 700 East Suite 100, Salt Lake City, UT 84107
HNTB Corporation	Brian Elrod	801/656.2101	801/656-2101	dforbes@hntb.com	257 East 200 South Suite 760, Salt Lake City, UT 84111
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Thompson Transportation	David Thompson	801/415-9567	801/415-9567	david@thompsontransportationinc.com_	5217 Morning Crest Drive, Taylorsville, UT 84123
URS Corporation	Rachel A.B. McQuillen	801/904-4000	801/904-4100	rachel_mcquillen@urscorp.com	756 East Winchester Street Suite 400, Salt Lake City, UT 84107
Wilson & Company	Michael King	801/910-1811	801/364-0676	michael.king@wilsonco.com	8 East Broadway Suite 300, Salt Lake City, UT 84111

UDOT Consultant Services

Project Manager Listing for

General Engineering Services & Local Government Pool July 1, 2007 through June 30, 2009

6/14/2007 (Revised 8/31/07)

UTAH DEPARTMENT OF TRANSPORTATION (UDOT) CONSULTANT SERVICES DIVISION 4501 South 2700 West Salt Lake City, Utah 84119-5998

Salt Lake City, Utah 84119-5998 801/965-4138

PROJECT MANAGERS LIST

REGION 1 166 West Southwell Street Ogden, Utah 84404 801/620-1600

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UTAH DEPARTMENT OF TRANSPORTATION (UDOT) CONSULTANT SERVICES DIVISION 4501 South 2700 West Salt Lake City, Utah 84119-5998 801/965-4138

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Mike Miles Clark Mackay Randall Taylor Pamela Higgins Laurel Glidden Myron Lee	Precon Eng Const Eng Environmental Eng Archaeologist Archaeologist (Cedar) PIC	435/893-4763 435/893-4705 435/893-4714 435/893-4740 435/865-5562 435/893-4702	435/896-6458 435/896-6458 435/896-6458 435/896-6458 435/865-5564 435/896-6458	mmiles@utah.gov clarkmackay@utah.gov randalltaylor@utah.gov phiggins@utah.gov lglidden@utah.gov myron@utah.gov

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Wayne Jager	Corridor Planner	801/965-4185	801/965-4551	wjager@utah.gov	
Michael Kaczorowski	Travel Demand	801/965-4152	801/965-4551	mkaczorowski@utah.gov	
Vacant	Planning Engineer	801/965-4829	801/965-4551		

CONSULTANT SERVICES
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Raeleen Sanchez	L G Contracts	801/965-4183	801/965-4796	raeleen@utah.gov	
Travis Christensen	CM/GC Contracts	801/965-4419	801/965-4796	travischristensen@utah.gov	
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Hank Bryan	Financial Analyst	801/965-4138	801/965-4796	hbryan@utah.gov	

Contact for additional information:

Gaye Hettrick, CPM Consultant Services Manager 801-965-4639 ghettrick@utah.gov

UDOT Consultant Services

RFQ for

General Engineering Services & Local Government Pool July 1, 2007 through June 30, 2009

UTAH DEPARTMENT OF TRANSPORTATION

REQUEST FOR QUALIFICATIONS (RFQ)

UDOT GENERAL ENGINEERING SERVICES & LOCAL GOVERNMENT POOL

The Pool is for small and simple transportation and construction-related service contracts under \$400,000 (cradle to grave).

POOL PERIOD JULY 1, 2007 - JUNE 30, 2009

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POOL RFQ REQUIREMENTS SUMMARY

Pool Project Restrictions

The UDOT General Engineering Services & Local Government Pool is for small and simple transportation and construction-related service contracts under \$400,000 from start to completion. Other qualification-based selection processes are available through Consultant Services and should be used for projects that may exceed this limit. Please contact Gaye Hettrick, Consultant Services Manager for more information at 801-965-4639.

Pool Project Locations

Various locations statewide

Sources of Funding

Federal, Local, State, or Other

RFQ Administrator

Gaye Hettrick, Consultant Services Manager 4501 S. 2700 W., 4th Floor / NE Corner Box 148490 Salt Lake City, UT 84119-5998 801-965-4639 ghettrick@utah.gov

Local Newspaper Saturday Advertisement Dates

February 24, March 3, 10, 17, and 24, 2007

Statements of Qualifications Due

Tuesday, April 10, 2007 Before 11:00 a.m.

Any SOQ received after 11:00 a.m. on April 10, 2007 will be considered non-responsive and will be disqualified. It is the Consultant's responsibility to ensure the SOQ is received by Consultant Services prior to the deadline.

Early Submittals Accepted

SOQ's will be accepted only from Monday, April 2, 2006 until Tuesday, April 10, 2006 before 11:00 a.m.

Electronic Submittal Required

Electronic submittal of SOQ's is required.

New Pool List Website Posting

Monday, February 26, 2007

New Pool Period

July 1, 2007 through June 30, 2009

Financial Screening

The Department requires Consultants be Financially Screened prior to performing work for UDOT. If a Consultant is selected and has not been financially screened and approved within two weeks after selection, the Consultant will be disqualified unless the delay is due to problems or delays by UDOT. The time it takes a Consultant to complete the Financial Screening process varies and therefore the Department encourages Consultants to submit their *Financial Screening Application* at the same time as their Statement of Qualifications or before. Consultants may obtain the *Financial Screening Application* from the UDOT Web site udot.utah.gov under "Inside UDOT > Internal Groups and Divisions > Project Development > Consultant Services > Forms" or udot.utah.gov/index.php?m=c&tid=287. For questions, contact the Consultant Services Analyst at 801-965-4138. A Consultant's Financial Screening status is effective for the period of one year from the time the Consultant is approved.

Consultant Services Electronic Notification Subscription Service

Please join the Consultant Services Electronic Notification Subscription Service. Consultants will only be notified of any updates or changes to this RFQ through this service. The website for subscribing is http://www.udot.utah.gov/index.php/m=c/tid=548.

SELECTION SCHEDULE

Date	Day	Action		
2/24/07	Saturday	Advertisement of Pool RFQ in newspapers		
2/26/07	Monday	Posting of Pool RFQ on UDOT Consultant Services Project		
		Advertisement website		
3/3/07	Saturday	2 nd Advertisement of Pool RFQ in newspapers		
3/10/07	Saturday	3 rd Advertisement of Pool RFQ in newspapers		
3/17/07	Saturday	4 th Advertisement of Pool RFQ in newspapers		
3/24/07	Saturday	5 th Advertisement of Pool RFQ in newspapers		
4/2/07	Monday	Early Submittal of SOQ's Allowed		
4/10/07	Tuesday	Pool Statements of Qualifications are due by 11:00 a.m.		
5/18/07	Friday	Scores Due from Selection Team Members to Consultant		
	-	Services		
6/28/07	Friday	Pool List Website Posting		

ADVERTISEMENT

NOTICE OF CONSULTANT SERVICES

The Utah Department of Transportation (UDOT) is seeking the services of qualified Consultants/Contractors (Firms or Individuals) to respond to our General Engineering Services & Local Government Pool Request For Qualifications. This Pool will consist of 27 specific Work Disciplines that will allow UDOT and Local Government entities to select qualified Consultants/Contractors for small and simple transportation and construction-related projects beginning July 1, 2007 through June 30, 2009.

If you are interested in submitting a Statement of Qualifications for any or all of the 27 work Disciplines, the Request for Qualifications information will be available on Monday, February 26, 2007 and may be obtained from the Utah Department of Transportation Web site udot.utah.gov under "Inside UDOT > Internal Groups and Divisions > Project Development > Consultant Services > Project Advertisements" or udot.utah.gov/index.php?m=c&tid=614.

The deadline for submitting Statement of Qualifications is 11:00 a.m. on Tuesday, April 10, 2007. The right is reserved by the Department to reject any and all Statements of Qualifications.

The Utah Department of Transportation encourages prime consultants to use Disadvantaged Business Enterprise and/or Women Business Enterprise's as sub-consultants where practicable. UDOT also encourages DBE/WBEs to respond to the Pool RFQ.

February 24, 2007

John R. Njord Executive Director Utah Department of Transportation

SOQ REQUIREMENTS SUMMARY

Preparation of SOQ's

Prepare Statements of Qualifications in accordance with Utah Department of Transportation SOQ Requirements Summary.

SOQ Sections

Each SOQ should contain the following sections:

- 1) Introduction Letter;
- 2) Firm Qualifications:
- 3) Key Personnel; and,
- 4) Project Experience.

Sections are not required to start at the top of a page.

If the SOQ is for the Work Discipline Visualization, an additional separate submittal will be required, see "Visualization Work Discipline – Additional Requirement" below for further details.

Introduction Letter

An Introduction Letter is required for each SOQ. The letter will need to identify that the Consultant or Contractor:

- 1) Has read the RFQ;
- 2) Understands the acceptance and completion criteria, submittal and financial screening requirements:
- 3) Understands the Pool Project and Consultant or Contractor Caps/Limits;
- 4) Is willing to follow <u>all</u> state and federal contracting requirements; and,
- 5) Understands that policy & procedures & processes may change during the Pool Period and that UDOT will require Consultant and Contractor compliance that may mean proactive and positive behavior while change is taking place.

In addition, the letter is required to:

- Include a contact person and information (name, title, office phone, fax number, address, email address, cell phone) in case our Pool Selection Team has questions about the submittal;
- 2) Include in the upper right hand corner the **Work Discipline Name**. No page number is required on letter. The letter may only be one-page in length; and,
- 3) Disclose any debarment or license issues and/or investigations along with any UDOT Project Evaluations Received that included a score of zero or one in any category.

Separate SOQ Submittal Required for Each Work Discipline

A separate SOQ submittal is required for <u>each</u> Work Discipline you are interested in submitting for. The **Work Discipline Name** should be clearly marked in the upper right hand corner of the Introduction Letter.

Visualization Work Discipline - Additional Requirement

In addition to the standard SOQ requirements, an SOQ submittal for the Visualization Work Discipline will require an additional separate submittal by April 10, 2007 at 11:00 a.m. The submittal should be one copy of a Video, CD, or DVD, with examples of your deliverables in 2-D, 3-D, or 4-D. The deliverables should be no longer than 5 minutes in length. This submittal should be delivered to Gaye Hettrick at UDOT Engineering Services, 4501 South 2700 West,

Salt Lake City, UT 84119 (4th Floor North side of the Calvin Rampton Building) by the deadline or the Consultant's Visualization Work Discipline SOQ will be considered non-responsive and will be disqualified.

SOQ Maximum Number of Pages

The maximum number of pages for each SOQ, not counting the Introduction Letter, is **five (5)** for those Work Disciplines that have no Sub-Categories.

There are three Work Disciplines ("Environmental/NEPA Document Preparation", "Intelligent Transportation Systems", and "Traffic Signals / Roadway Lighting") that have Sub-Categories. For those Work Disciplines that do have Sub-Categories, the maximum number of pages is seven (7), not including the Introduction Letter.

Any SOQ that exceeds the page-maximum will be disqualified.

SOQ Page Numbers

Every page shall be numbered consecutively, 1,2,3, ... 5. Please make this part of each page as a footer in the lower right hand corner. Do NOT count the Introduction Letter as page 1.

Page Footers

Page Footers are required on every page bottom right corner and <u>must</u> include the following information:

- 1) Consultant/Contractor Name (Individual or Firm);
- 2) Work Discipline Title; and
- 3) Page number.

Margins

One Inch Margins for all 5 or 7 pages (Page Footer information may be inside <u>or</u> outside of this boundary).

Color

Submittals should be in black and white (excluding letterhead).

Font

Size 11 or 12 is preferred.

Script

Arial or Times New Roman is preferred.

Page Size

8½ x 11

Design

Charts, graphs, pictures, tables are acceptable but will be counted as part of page requirements and shall meet the above requirements.

Electronic SOQ Submittal Required

1) Submit an electronic PDF file of the SOQ by email to Gaye Hettrick, Consultant Services Manager and RFQ Administrator, at GESOQ@utah.gov prior to the deadline. You will receive an automatic email acknowledgement of receipt.

- 2) A separate email submittal for each SOQ is required.
- 3) The email must have the Work Discipline then Firm Name in the subject line.
- 4) If an email is submitted without the attachment, the submittal will be considered non-responsive.
- 5) If for some reason you are unable to email your submittal, a CD with SOQ files delivered to Consultant Services by the deadline, will be accepted.

SOQ Deadline

Tuesday, April 10, 2007 <u>before</u> 11:00 a.m. Consultant Services will accept electronic submittal of SOQs beginning Monday, April 2, 2007.

Rejection of Statements of Qualifications

Any SOQ that is not received by Consultant Services by the submittal deadline of 11:00 a.m. will be considered non-responsive and will be disqualified.

Penalty Points

The Department reserves the right (through Consultant Services and/or the Selection Teams) to assess <u>one</u> Penalty Point for <u>each</u> instruction violation in the SOQ Requirements Summary. Our goal is not to penalize any submittal just help standardize/streamline the Pool Review Process for the volunteers.

POOL ACCEPTANCE AND COMPLETION CRITERIA

Contract Caps/Consultant Limits

It is the responsibility of all parties (UDOT, Consultants, and Local Governments) to make sure that each project seeking Consultant selection from the Pool meets the **Project Limit of** \$400,000 (cradle to grave) and the Consultant Pool Period Cumulative Cap of \$900,000 for Local Government Projects and \$1,250,000 for State Projects. No exceptions.

Consultant Cumulative Cap Contingency Formula

A full twenty-five percent reserve of all open contracts in the 2007-2009 Pool will be maintained for potential modifications to those contracts in order to not exceed the Consultant Cumulative Cap. A contract will be considered closed in regards to the contingency formula if the Project Consultant Evaluation Form has been completed and submitted to Consultant Services **AND** the retainage release invoice has been submitted to and approved by the UDOT Project Manager and submitted to the Comptroller's Office for payment.

Work Disciplines

A Pool of qualified Consultants or Contractors (firms or individuals) will be selected to cover each area of service (Work Disciplines) the Department deems necessary for upcoming projects. Project Managers are encouraged to use the 50% Scope of Work/Work Plan Rule which will help them determine what Work Discipline to check when selecting a Consultant.

Qualified Consultant Selections

UDOT Project Managers and Local Government Project Managers are encouraged to use a variety of Consultants for their Pool Projects. However, it is up to each Consultant or Contractor to market their skills and services directly to the Region Project Managers. We encourage all UDOT Project Managers to have an open-door policy for meeting new and old Consultants beginning July 1 through November 1, 2007.

Pool Qualification Cut-Off Level

UDOT and FHWA have predetermined the cut-off level of acceptability for this new Pool Period. We will not disclose this information to Consultants or the Pool Selection Team Members until after July 1, 2007. Consultant Services does not want to bias the scoring process.

Prime Consultant Requirements

Pool Contract Language states that a Prime Consultant will perform **60%** of the total contract value. <u>Any</u> variation from this procedure will need to be noted in the UDOT's Project Manager Approval Memo so that the contract language may be altered.

Prime Consultant Pool Dollar Availability

All contract and modification costs (including subconsultant costs) will count towards the Prime Consultant's Cumulative Pool Dollars.

Consultant Selection

The selecting Project Manager (UDOT and/or Local Government) will make sure that each Consultant selected for a Pool Contract has consultant cumulative dollar availability prior to contacting the Consultant. This is done through the Financial Screening Request Form found on the Consultant Services website.

Contract and/or Modification Requirements

The Department requires standard contract and contract modification documentation. Any variation from this will require full justification in the Consultant's Work Plan and in the Project Manager's Approval Memo. Contract Modification requests are required to comply with the contract-cap and consultant cumulative-cap limits.

The Consultant/Subconsultant(s) submits the following items to the UDOT Project Manager for review and approval:

- 1) Executive Summary
- 2) Detailed Work Plan
- 3) QC/QA Plan & Checklist
- 4) Staffing Plan (UDOT Form Required)
- 5) Task Schedule/Deliverable Dates/Project Completion Date
- 6) Project-Specific Certificate of Insurance
- 7) Subconsultants shall be required to meet all contract document requirements, if the value of the subcontract is greater than or equal to \$5,000. At a minimum for Pool Contracts, Consultant Services requires Subconsultants submit a "Letter of Engagement" to the Prime acknowledging project task responsibilities, deliverable dates, and a Cost Proposal. Please refer to 48CFR Part 15.404-3, Table 15-2 Part 15.408, if you need further information.

The **UDOT Project Manager** is required to submit the following documents to Consultant Services before a Pool Contract and/or Modification can be generated:

- 1) Scope of Work Executive Summary
- Independent Cost Estimate (ePM)
- 3) R-709 Form (Required for All State and Federal Projects)
- 4) ePM 505 Updated Screen Print
- 5) Financial Screening/Pool Dollar Availability (Request Memo)
- 6) Contract/Modification (Approval Memo)
- 7) Consultant's Contract/Modification Package
- 8) LG Project Manager Review Memo (Approving Consultant, Selection Method, Cost Proposal Amount, and Completion Date).

Insurance Requirements

The Department reserves the right to require all Consultants and Subconsultant(s) selected for Pool Projects to meet certain insurance requirements. These requirements may change throughout the Pool period according to the need and direction of the Department. It is the responsibility of the Consultant to meet the insurance requirements of the Department. Insurance Waivers may be requested through the UDOT Project Manager in writing who will then submit the request to Risk Management and Consultant Services for approval.

Applicable Federal, State, and Local Regulations

It is the responsibility of Consultants and Subconsultants to know and understand state and federal contracting and project regulations, rules, policies and procedures. Consultants and Subconsultants shall conform to all state and federal requirements.

Authorization to Begin Work

Consultant Services is the only authorized agent to give a Notice to Proceed. This may come via e-mail or fax and will then be followed through by an official letter. Consultants may request an early Notice to Proceed with the UDOT Project Manager via email if a specific incident arises

where UDOT needs to allow work to begin prior to a NTP. The UDOT Project Manager is then required to submit this request in writing justifying and supporting the request to the Consultant Services Manager. If an early Notice to Proceed is given, it will come from Consultant Services in writing with specific limitations and expectations for the Consultant and the UDOT Project Manager.

NOTE: Violation of authorization to begin work (Notice to Proceed) may result in non-payment of work performed, termination of an impending contract, or loss of federal funds, if applicable. Consultant billings shall not date prior to contract and/or modification execution date.

Consultant Personnel/Certification Requirements

The Consultant guarantees the Department that every individual working for them is qualified through training, experience, and appropriate certification for the tasks they will be assigned for a contract or contract modification. If the Department has determined that non-professional technical people who may work on projects for the Department must meet certain certification requirements it must be reflected in each SOQ that the Consultant has met this requirement.

Training Requirements

Consultants and Subconsultants will be required to provide the Department any necessary training verification as deemed necessary. It is the responsibility of each Consultant to know what training will be required and when it is offered.

Payments and Retainage Fee

Unless requested at the time a contract is initiated (by the UDOT Project Manager) all contracts and modifications will have retainage in the amount of 5% deposited in a UDOT approved escrow account. Project Managers shall determine when partial and/or full retainage should be released to a Consultant. Consultant Services and the Comptrollers Office suggest that a project evaluation be executed (UDOT and Consultant Signature) prior to the written release of retainage request being submitted.

Project Evaluation Requirements

Consultant Services requires that UDOT Project Managers, Local Government Project Managers, and Consultants perform at least TWO Project Consultant Evaluations for each contract. Consultants are encouraged to initiate these evaluations if the UDOT or Local Government Project Manager has not. They are further encouraged to include them in the project schedule.

Consultant Project Evaluation Form

The Consultant Project Evaluation Form (final evaluation) may allow UDOT to debar a Consultant from future UDOT or Local Government Projects from 6 months to 3 years and should be taken very seriously.

Debarment Certification

Federal Regulations require certification by prospective participants (including consultants, contractors, subcontractors, and principals) as to current history regarding debarment, eligibility, indictments, convictions, or civil judgments. The selected Consultant will be required to certify in accordance with contract Standard Terms and Conditions on every contract. Consultants who are debarred from working in the current Pool Period will receive a letter from Consultant Services and a copy of the Consultant Project Final Evaluation. The firm or individual name will then be redlined on the UDOT Pool List to notify UDOT Project Managers and Local

Government Entities that no new work can be given to this firm/individual until the debarment time is over. Consultants are required to disclose any current (last 2 years) debarment, license issues, and/or investigations information along with any UDOT Project Evaluations received that included a score of zero or one in any category in their Pool Introduction Letters.

Pool Debriefing Opportunities

Consultant Services will offer Consultant Pool Debriefs by email within 90 days of receiving an email request. Debriefing information will include 1) Discipline Scores and 2) Not Qualified ("0") Selection Team Reviewer Comments (see page 16 for details). This may be changed to meet the needs of the Department.

Disclosure and Disposition

Statements of Qualifications of successful Consultants shall be open to public inspection for a period of two years after the Pool selection is made. Once submitted, Statements of Qualifications become the property of Utah Department of Transportation and are treated as privileged documents (this includes scores and comments) and will be handled according to Department Policies. The 3-person Review Team Copies will either be destroyed or placed at the Regions as a resource.

Preaward Audit

In the event that a proposing consultant has failed to pay UDOT monies due to the Department for over payment on past projects, UDOT has the right to reject and/or disqualify the firm's Statement of Qualifications. Disqualification will be based on the audit findings, determinations, and recommendations made by the Department's authorized agent.

Technology Requirements

It is the responsibility of the Consultant/Contractor or Subconsultant to know what technology requirements are required when doing business with the State. The Consultant will be responsible for the accuracy of the translated data and therefore, may be required to reimburse the Department for any errors that have a direct cost to the Department. Technical and Standards support will be provided to the consultant through the Engineering Systems Section of the Information Systems Support (ISS) Division at UDOT. Questions or comments can be addressed to Craig Hancock, P.E., Director of Engineering Technology Services at the Utah Department of Transportation, 4501 South 2700 West, Salt Lake City, Utah 84119. You may email Craig at chancock@utah.gov or call him at 801-965-4865.

Quality Control / Quality Assurance

Reviews and Quality Assurance: All contracts require a quality control / quality assurance plan and checklist. For design projects specifically, the CONSULTANT shall deliver a project specific QC/QA plan that meets or exceeds the DEPARTMENT'S standard QC/QA plan located on the DEPARTMENT web page at http://www.udot.utah.gov/index.php/m=c/tid=650. If the CONSULTANT elects to use their own QC/QA plan, that plan shall, as a minimum, contain the requirements of the DEPARTMENT'S plan and be approved by the DEPARTMENT'S Project Manager. In addition to the QC/QA checklists and certifications, back up documentation of the QC/QA plan shall be maintained. The back up documentation shall include, but not be limited to the following items:

- 1) Check prints and calculations
- 2) Comment resolution forms
- 3) Written records of the findings of the Quality Control check

•	Peer review letters, memoranda, etc. Any other correspondence regarding the Quality Control activities involving the task.

WORK DISCIPLINES

	Work Disciplines					
1	Aerial Photogrammetry	15	Partnering Facilitation			
2	Bridge Design	16	Pavement Design			
3	Bridge Management / Asset Management	17	Planning			
4	Constructability Review	18	Preconstruction Engineering			
5	Construction Engineering Management	19	Public Involvement – Operations / Project / NEPA			
6	Dispute Resolution Review	20	Research/Studies/New Development			
7	Environmental/NEPA Document Preparation *Sub-Categories	21	Right of Way Engineering			
8	Geotechnical/Hydrogeology	22	Schedule Analysis & Claims Review			
9	Hazardous Materials / Waste Assessment and Remediation	23	Subsurface Utility Engineering			
10	Intelligent Transportation Systems *Sub-Categories	24	Surveying / Mapping			
11	Landscape Architecture	25	Traffic Signals / Roadway Lighting *Sub-Categories			
12	Major Hydraulic Design	26	Value Engineering			
13	Materials Testing	27	Visualization 2D/3D/4D			
14	Minor Structure Design					

WORK DISCIPLINE EVALUATION/SCORING CRITERIA

The General Engineering Services & Local Government Pool Discipline Selection Review Teams will evaluate and score all Statements of Qualifications in accordance with the criteria and rating scale below. (NOTE: It is not required to have headings on separate pages in the SOQ.)

Rating: 0 = Not Qualified 1 2 3 4 5 = Excellent

Heading	Criteria	Points Possible	Rating	Multiplier	Score
1	Firm Qualifications	(5)		X <u>1</u> =	
2	Key Personnel	(10)		X <u>2</u> =	
3	Project Experience	(10)		X <u>2</u> =	
Total Points		25			

Note: If a Selection Team Reviewer rates a Consultant "**Not Qualified = 0**", the Reviewer will be required to submit detailed comments on the Consultant's Individual Scoring Form. Comments will be given to the Consultant in their debriefing email.

Criteria Heading 1 – Firm Qualifications

Provide specific Consultant firm qualifications directly related to the "Work Discipline" you are submitting qualifications for, including both local and national (if applicable) qualifications. Particular emphasis should be placed on your firm's specific and unique strengths that show leadership, management, work quality, commitment, collaboration, and communication capabilities.

Criteria Heading 2 – Key Personnel

Provide specific experience of Key Personnel that your firm will utilize in the particular "Work Discipline" you are submitting qualifications for. Specific past experience related to education, expertise, leadership, management, and ability to collaborate and communicate should be emphasized.

Criteria Heading 3 – Project Experience

Provide specific project experience from the firm has completed on transportation projects in the particular "Work Discipline" you are submitting qualifications for. Project experience must be work completed within the past five years and must include references.

WORK DISCIPLINE DESCRIPTIONS/CERTIFICATIONS/OTHER REQUIREMENTS

Aerial Photogrammetry - #1

Provide aerial mapping services on engineering projects on an as needed basis under the direction of the Department's representative. Aerial mapping may include any or all of the following: digitized color or black & white aerial photographs, color or black & white orthographics. Aerial photogrammetry shall meet the latest ediction of requirements of the Mapping and Aerial Photogrammetry Guidelines and should be suitable for subsequent photogrammetric mapping. This area of work also includes obtaining information about physical objects and the environment through processes of recording, measuring and interpreting photographic images and electromagnetic energy in order to create and produce digital and planimetric data. It includes creation of digital orthophotography. It may include survey work necessary to establish reference points for photo control.

Bridge Design - #2

This category of work is defined as the production of competently engineered bridge plans that conform to the Department's design standards, including the Bridges and Structures Design Manual, and those of the FHWA. Consultants may provide engineering services to design, study, analyze or review complex structures of various types that may be required on a highway project or engineering study. This may include but not be limited to the complete design of bridges and other complex structures. Design will include applicable Accelerated Bridge Construction components. The analysis and designs shall be done in accordance with the applicable UDOT, Local Government, AASHTO, State and Federal requirements.

Bridge Management/Asset Management - #3

Work within this category is related to assisting in UDOT's overall bridge management efforts. This may include small to large projects, or individual tasks. Specific services may include but are not limited to bridge inspection, STIP Planning, Corridor studies, Hydraulic studies, deterioration modeling, cost modeling, database enhancements, training, minor plan package development, and technical support.

Constructability Review - #4

The Department is seeking qualified individuals or firms who can provide Constructability Review services to design plans going into construction. Integration of experienced construction personnel into the earliest stages of project planning as full-fledged members of the project team will greatly improve the chances of achieving a better quality project, completed in a safe manner, on schedule, for the least costs. Constructability optimizes the following major project elements from start to finish of the project: Overall project plan, Planning and design, Construction-driven schedule, Costs or estimates, Construction and major construction methods. Factors to be considered in a Constructability review/program may include the following: Managing the project, Project delivery system, Contracting strategy, Risk management, Work package breakdown, Labor plan, Access to site, Site layout, Sequence of design or construction, Rigging plan, Availability and procurement equipment and materials, Prefabrication, Preassembly, Modularization, Quality management, Materials management, Site facilities, Safety, Operability, and Maintainability.

Construction Engineering/Management - #5

All qualified Consultants desiring to provide Construction Engineering/Management services to the Department and/or Local Government may be required to provide the following prior to being selected for a project: 1) Training Certification Verification, 2) Conference Attendee Verification 3) Professional License (PE). Some tasks of Construction Engineering/Management are: 1) Continuous on site monitoring of the contractor's work, resolve any issues that arise, 2) Conduct all necessary meetings from the advertisement to the post construction conference, 3) Coordinate with UDOT and/or local government representatives on project issues, and 4) Monitor the contractor's work for safety, adherence to the traffic control plan, schedule, and compliance with appropriate plans and specifications related to the project. WAQTC Certified Personnel in AMRL Certified Labs may test all construction material. Consultants are responsible for entering quantities into the Department's Project Accounting System and therefore must have appropriate training prior to being selected for a project. It is the Consultant's responsibility to know what training is necessary and when the Division for this discipline offers it. More information may be found at: http://www.udot.utah.gov/index.php/m=c/tid=616.

Dispute Resolution Review - #6 INDIVIDUAL SUBMITTALS ONLY

The Department is soliciting interest from **individuals** with experience in major highway design and/or construction projects for the purpose of establishing a pool of qualified individuals to serve in the Department's behalf as members of three-member Disputes Resolution Boards, for projects located throughout the State. It is anticipated that the Boards will meet periodically (3 to 5 times a year) for the duration of these contracts (2 to 3 years). A Board will be established for each contract. A different member may be selected for each Board. The selection of individuals to serve on these Boards will consider the following criteria: past experience, including major highway design and construction; experience with concrete and steel structures: geotechnical studies: contract disputes, arbitration or mediation; scheduling: availability within 72 hours; and individual expertise. The selected board member will be required to enter into a three-party agreement with the Department, the Contractor, and the Board. The Department desires that Consultants be experienced with the type of construction and/or design involved in the project, interpretation of contract documents, and resolution of construction disputes. It is also imperative that the Consultant be neutral, act impartially, and be free of any conflicts of interest. Disclosure statements will be required before a Consultant is selected. Each statement shall include a resume of experience, together with a declaration describing all past, present, and anticipated or planned future relationships, including indirect relationships through the prospective members primary or full-time employer, to this project and with all parties involved in the Contract, including subconsultants or subcontractors, design professionals, and Consultants. The objective of this discipline is to qualify Consultants or individuals to consider, fairly and impartially, any disputes referred and to provide written recommendations to the Department for resolution.

Environmental/NEPA Document Preparation - #7

(Sub-Categories Need to Include All Criteria on Page 16)

This category of work provides environmental services for proposed transportation projects. As this Work Discipline has Sub-Categories, the maximum number of pages is seven. Consultants must be able to document their ability to successfully conduct environmental services, such as those listed:

Environmental Document Preparation – Environmental Assessment

Consultants performing services needed to prepare National Environmental Policy Act (NEPA) and Section 4(f) Evaluation documents for Environmental Assessment, UDOT: Environmental Process Manual of Instruction, Federal Register 23CFR771 (Federal Register August 28, 1987), FHWA Technical Advisory T6640.8A (October 30, 1987) and other applicable Federal, State, and local laws, regulations, Executive Orders, and guidance. Areas of study for all NEPA or state-funded environmental studies may include: historic, archeological, Paleontological, hazardous waste, public involvement, noise, wetlands, flood plains, wetland mitigation and stream alteration permitting issues, air quality, prime unique farmlands, endangered species, secondary and cumulative impacts, Environmental Justice, and assisting FHWA as needed in Tribal consultation.

Environmental Document Preparation - CATEX

Consultants performing services needed to prepare National Environmental Policy Act (NEPA) and Section 4(f) Evaluation documents for Categorical Exclusions (CATEX) and state-funded environmental studies must be familiar with UDOT's Design Process, UDOT: Environmental Process Manual of Instruction, Federal Register 23CFR771 (Federal Register August 28, 1987), FHWA Technical Advisory T6640.8A (October 30, 1987) and other applicable Federal, State, and local laws, regulations, Executive Orders, and guidance. Areas of study for all NEPA or state-funded environmental studies may include: historic, archeological, Paleontological, hazardous waste, public involvement, noise, wetlands, flood plains, wetland mitigation and stream alteration permitting issues, air quality, prime unique farmlands, endangered species, secondary and cumulative impacts, Environmental Justice, and assisting FHWA as needed in Tribal consultation.

Air Quality

Consultants performing air quality analyses on transportation projects must be familiar with the Clean Air Act Amendments of 1990, the UDOT planning process as it relates to regional conformity and project level conformity, the Long Range Plan (LRP) and Transportation Improvement Plan (TIP). Air Quality analyses will address all criteria pollutants applicable to the geographic area of the proposed project. Analyses may be required for ozone, particulate matter, carbon monoxide nitrogen dioxide sulfur dioxide, lead, air toxics and other constituents as required by the project. For quantitative analyses of carbon monoxide, consultants will use emission factors generated by the latest emissions model and the latest version of the CAL3QHC source dispersion model. Analyses of particulate matter will be consistent with the latest recommendations and methodologies distributed by the EPA. For a given project, consultants will describe current conditions, potential impacts due to a project in the projected design year and potential impacts of the no-build scenario for the design year. Consultants will analyze potential project impacts, develop possible mitigation strategies, develop conclusions, and provide a written report for possible inclusion in an environmental document.

Archaeology/Ethnography/Paleontology

The Department is seeking to retain cultural and fossil resources management services throughout the state.

Cultural resource services include: 1) identification and documentation of archeological sites (prehistoric and historic) and isolated finds; 2) traditional cultural properties inventory and documentation; 3) recommendations of National Register of Historic Places eligibility for documented resources; 3) development and implementation of testing plans and data recovery plans; 4) monitoring of documented resources; and 5) assistance with Native American consultation. At a minimum, consultants must be familiar with Section 106 of the NHPA, Section

Consultants will be required to follow the UDOT Guidelines for Archaeological Survey and Testing. Consultants will need to demonstrate methods and procedures for survey and inventory, which minimally include: 1) permits and coordination; 2) scheduling; 3) team composition and qualifications; 4) literature records searches; 5) methodology for inventories; 6) site documentation to state and federal standards; and 6) National Register of Historic Places eligibility recommendations. Consultants will need to provide specialists in lithic, ceramic, faunal, paleobotanical, historic artifact, and geoarchaeological analysis for testing and data recovery projects. These specialists should be able to demonstrate currency with up-to-date research and analytical methods and topics. Other potential specialists for data recovery will require identification at the development of the data recovery plan. Consultants may be required to provide an electronic file of the GPS locations and/or shape files in ArcView/ArcGIS format for both cultural and paleontological resources.

Fossil resource services include: 1) written literature search request to the State Paleontologist; 2) inventory, documentation, significance evaluation, and mitigation of fossil resources by a qualified paleontologist; and 3) fossil resource monitoring by a qualified paleontologist.

Consultants must be able to acquire (and are responsible for doing so) all necessary state and federal archeological and fossil survey and data recovery permits to work on all lands within the state of Utah. These include, but are not limited to, UDOT Field Authorization, UDOT Encroachment Permit, Utah Archaeological Survey Permit, and Utah Archaeological Excavation Permit.

Historic Architecture

The Department is seeking to retain qualified architectural historians or architects for the inventory, documentation, and evaluation throughout the state of buildings, sites, and properties other than archeological for the purpose of compliance with federal and state regulations, such as Section 106 of the National Historic Preservation Act (NHPA), Section 4(f) of the DOT Act of 1966, and Section 9-8-404 of the Utah Code Annotated (U.C.A.). Architectural historians or architects must meet the following qualifications: 1) A graduate or undergraduate degree in architectural history, historic preservation, or closely related field, with coursework in American architectural history; or 2) At least two years of experience in research, writing, or teaching in American architectural history with an academic institution, historical organization or agency, museum, or professional institution; or 3) must have demonstrated proficiency and experience in inventory and documentation (RLS, ILS, National Register nominations) in accordance with Utah State Historic Preservation Office standards.

Consultants must have proficiency and experience in the following areas: 1) Inventory and documentation with reconnaissance-level and intensive-level surveys; 2) a knowledge of survey methodology and the available resources to undertake such surveys; 3) understanding of National Register of Historic Places eligibility criteria; 4) ability to complete National Register of Historic Places nominations and multiple property nominations.

All consultants will be expected to submit inventories and documentation in accordance with Utah State Intensive Level Survey, Utah State Reconnaissance Survey procedures, and UDOT requirements. The consultant may be required to submit electronic site documentation (Access database). The consultant may be required to submit mitigation documentation for the Historical American Buildings Survey (HABS) and Historic American Engineering Record

(HAER) in accordance with the Secretary of the Interior's Standards for History. The consultant's team should include a photographer qualified in large format photography and drafting specialists.

Biological/Wildlife

Consultants performing wildlife analyses must have at minimum a Bachelor of Science degree in wildlife biology, or a related field, plus 5 years of experience. The wildlife analysis should include a description of all ecosystems (flora and fauna) in the project area. This should include an assessment of current conditions and trends, and any environmentally sensitive features and sensitive wildlife species (flora and fauna), including State sensitive species, and federally listed Threatened, Endangered, or Candidate species, and/or their Critical Habitats within a mile radius of the project area. This analysis should identify wildlife migration patterns, wildlife connectivity and linkage areas, and fish passage, and include wildlife/vehicle collision data from UDOT's Traffic and Safety database. For each project alternative (including the no action alternative), consultants will describe impacts to wildlife, including documentation of the methodologies used in evaluating impacts. They will provide an analysis of projected impacts for affected species, provide a comparison of project alternatives and their impacts and describe in detail the potential measures that could be taken to mitigate these impacts. For Threatened, Endangered, and Candidate species, and their Critical Habitats, all Formal and Informal Section 7 Consultation with the U.S. Fish and Wildlife Service will be coordinated with the UDOT Wildlife Biologist.

Noise and Vibration

Consultants performing traffic noise analyses on transportation projects must be familiar with the latest version of the FHWA Traffic Noise Model. Consultants must have the ability to conduct field noise measurements using an industry standard sound level meter and to use the field noise measurement data along with other data needed to run the current TNM model and interpret the results. Consultants must also be familiar with the current UDOT Traffic Noise Abatement Policy and the FHWA noise abatement procedures and standards contained in 23 CFR 772, "Procedures for Abatement of Highway Traffic Noise and Construction Noise". For a given project, consultants will describe existing traffic noise levels, document projected traffic noise levels in the design year for the build alternatives, analyze potential noise impacts, develop possible mitigation strategies, prepare a cost analysis of possible mitigation efforts, and provide a written report. Consultants performing construction or post-construction vibration analyses on transportation projects must be proficient in conducting vibration monitoring, compiling data and have the ability to make sound engineering conclusions and judgments as to the effects of vibration on surrounding structures. The consultant will be expected to have knowledge of soils, including the local geologic formations, to formulate an expert engineering opinion on construction activities and design-year vehicle movement on these soils as they relate to vibration effects on surrounding structures. These analyses may include the effects of pile driving, heavy truck traffic, or other potential sources of vibration. Consultants will analyze potential project vibration impacts, develop possible mitigation strategies, develop conclusions, and provide a written report

Wetlands

This category of work provides services to ensure transportation projects are in compliance with Section 404 of the Clean Water Act. Consultants must be capable of following the regulatory process established by the Army Corps of Engineers in providing the following work:

 Wetland Delineations: Perform wetland delineations and develop reports using the 1987 Corps of Engineers Wetland Delineation Manual or the new Interim Regional

- Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region and follow the Minimum Standards for Acceptance of Preliminary Wetland Delineations established by the Sacramento District.
- Wetland Functional Assessments: Perform wetland functional assessments using UDOT's Wetland Functional Assessment Method.
- Permit Application Process: Prepare complete Nationwide or Individual permit applications that include avoidance/minimization measures, alternative analyses where appropriate, and compensatory mitigation. Follow the most recent Habitat Mitigation and Monitoring Proposal Guidelines prepared by the Sacramento District and coordinate efforts with UDOT and the Corps Utah Regulatory Office.
- Plans and Specifications: Prepare detailed construction plans (grading and revegetation) and specifications for the creation, restoration or enhancement of wetland mitigation sites.

Consultants must be familiar with all regulatory laws, procedures, guidance letters and permits and have expertise in the natural sciences, (e.g. biology, hydrology, botany, etc.).

Geotechnical/Hydrogeology - #8

This category of work involves different aspects of geotechnical engineering including:

- Geotechnical Investigations (borings, CPT, test pits, geoseismic, etc.)
- Geotechnical Laboratory Testing
- Geotechnical Design (bridge foundations, retaining walls, slope stability, settlement, rock cut design, landslide mitigation, etc.)
- Pile Driving Analysis (PDA)

The services may be for the complete geotechnical design of a project or for one or more specific geotechnical tasks. Work shall be performed in accordance with UDOT's Design Process Activities: 22D, 23D, 24D, 85D, 86D, 87D, 97D, 98D, and 99D. The driller and CPT unit shall be able to provide exploratory holes in locations with difficult access requiring all terrain equipment. The driller shall be capable of collecting soil samples and rock cores common to the geotechnical practice in accordance with AASHTO and ASTM standards. The CPT unit shall conduct soundings according to the same standards. Provide all equipment and personnel necessary. Project support during construction may also be required. This may include activities such as foundation inspections, settlement monitoring, WEAP analysis and PDA. The Pile Driving Analysis consultant shall provide full Pile Driving services including driving analysis of pile types and sizes common in UDOT construction. Interpretation of analysis will include signal matching (CAPWAP) capability. The services shall also include all equipment and personnel necessary. All inclusive design services shall be in accordance with all AASHTO requirements and the UDOT Geotechnical Manual of Instruction.

Hazardous Assessments/Waste Assessment and Remediation - #9

Consultants qualifying for expertise in this field must be environmental professionals, 40 hour OSHA trained (current), trained in environmental site investigation techniques, certified by Utah Department of Environmental Quality (DEQ) to investigate and sample hazmat sites, have performed environmental site investigations where hazardous materials were found and/or discovered, be familiar with current US EPA regulations including (but not limited to) RCRA, CERCLA and SARA, OPA, CWA, CAA, NEPA requirements for Hazmat discovery, and state-adopted/delegated authority for same. Consultant must also become familiar with local jurisdiction requirements for reporting, removal and disposal on UDOT projects statewide. Level

of site investigation will generally be phased, following ASTM Phase I and II guidelines. Consultant will conduct historical research in corridor that will include, but not be limited to DEQ records search. Discoveries are reportable, by law, to DEQ following full report to project manager/environmental manager. Consultant may work with UDOT Right of Way agents and advise whether whole or partial property purchase is feasible. Consultants will analyze potential project impacts, develop possible remedial alternative, develop conclusions and provide a written report for possible inclusion in an environmental document. Hazardous Waste Contractors will obtain from local and state authorities the necessary permits for removals and disposals. All employees of contractor working in remediation phase of project must be current with 40-hour OSHA training. Contractor must provide estimate of costs and disposal fees. Contractor will be required to report discoveries to DEQ following full report to project manager/environmental manager. Contractor should work closely with an environmental consulting firm if it does not have in-house capability.

Intelligent Transportation Systems (ITS) & Sub-Categories #10 (Sub-Categories Need to Include All Criteria On Page 16)

Intelligent Transportation Systems are defined as the application of advanced computing and communication technologies in transportation. Projects require expertise in telecommunication, system integration, field installation and testing of hardware and computers, project management, systems analysis, plan review, construction inspection, and operations. As this Work Discipline has Sub-Categories, the maximum number of pages is seven. Sub-Categories include:

Planning and Analysis

Consultant(s) qualified in this sub-category will:

- 1) Assist with needs analysis, system planning and programming.
- 2) Develop or update system architectures.
- 3) Analyze business impacts of implementing new technology or major system changes and prepare reports documenting alternatives.
- 4) Recommend methods or assist in quantitatively measuring and analyzing system performance.
- 5) Conduct Benefit/Cost studies

Project Development, Design, and Oversight

Consultant(s) qualified in this sub-category possess knowledge, skills and abilities such as:

- 1) Knowing the design requirements for a UDOT plan set.
- 2) Experience using Micro-station/Inroads and Electronic Program Management (ePM)
- 3) Understanding UDOT's requirements for CADD and UDOT specifications
- 4) Understanding the Department's project advertising process
- 5) The ability to interpret designs and identify corrections to State furnished plans
- 6) Have a thorough knowledge of current UDOT ITS (ATMS) specifications, HCM, AASHTO Design Guide, MUTCD, and Roadside Design
- 7) Current certification or proven experience in inspection and QA/QC of projects
- 8) Current licensing with the State of Utah as Professional Engineers, Contactors, Master Electricians, Electricians, and Electronics Technicians (IMSA Level I,II,III).

Consultant(s) qualified in this sub-category will:

- 1) Prepare project alternatives analyses and concept reports.
- 2) Analyze and prepare scope documents.

- 3) Prepare design plans for construction.
- 4) Review and redline plans and construction specifications for compliance and consistency with ITS standards, specifications, and architecture.
- 5) Provide construction oversight including inspection, QA/QC, and engineering interpretation of plans.

Installation and Testing of Field Equipment

Consultant(s) qualified in this sub-category possess knowledge, skills and abilities such as:

- 1) A thorough working knowledge of ITS Devices.
- 2) Knowledge of telecommunications devices and associated software
- 3) Experience installing, testing, and troubleshooting IP/Ethernet communications, fiber, copper wire, and wireless communications.
- 4) Current certification in Outside Plant and Inside Plant practices and techniques.
- 5) The ability to perform site surveys, license frequencies, and establish continuous communications between field devices.
- 6) Understanding and experience with NEMA code

Consultant(s) qualified in this sub-category will install, program and test a variety of field devices including:

- 1) Video cameras
- 2) Variable message signs
- 3) Traffic monitoring stations
- 4) Highway advisory radios
- 5) Road weather information/environmental sensing systems
- 6) Communications hardware
- 7) Traffic signal controllers
- 8) Vehicle detectors
- 9) Pre-emption systems

Integration of Field Equipment

Consultant(s) qualified in this sub-category possess knowledge, skills and abilities such as:

- 1) Understanding and experience interfacing field devices through communications protocols
- 2) Ability and experience updating firmware, software and systems in the field
- 3) Understanding and experience with configuration management
- 4) Experience installing, testing, and troubleshooting IP/Ethernet communications, fiber, copper wire, and wireless communications

The Consultant will configure and perform end-to-end integration of field equipment, communications, and central control. (i.e. firmware, protocols, terminal server and Ethernet switches) to include:

- 1) Troubleshoot integration issues between field devices and central software
- 2) Provide assistance in integrating and debugging equipment
- 3) Establish continuous reliable communications providing network and communication solutions to identified problems
- 4) Design graphics of signalized intersections for centralized software
- 5) Update central software user interfaces, configuration and databases
- 6) Provide as-built splice details and outside plant data for updating UDOT's fiber configuration database
- 7) Complete acceptance testing for operations and maintenance.

Technology Implementation

Consultant(s) qualified in this sub-category possess knowledge, skills and abilities such as:

- 1) Understanding and experience with the principles of systems engineering
- 2) Knowledge and familiarity with the current National ITS Architecture Standard
- 3) Understanding and experience implementing IP/Ethernet communications, fiber, copper wire, and wireless communications in complex systems
- 4) Knowledge of current and future developments in ITS technology including products that are new, under development, or in research
- 5) Understanding and experience with UDOT ITS standards and specifications
- 6) Knowledge and understanding of successful and unsuccessful technology deployments related to transportation applications

Consultant(s) qualified in this sub-category will:

- 1) Review, create and update UDOT ITS standards and specifications.
- 2) Develop equipment procurement specifications, RFPs, and contracts.
- 3) Develop RFPs and on-call repair contracts.
- 4) Review and recommend approval/changes on national standards.
- 5) Research and evaluate new technology, hardware, and software and prepare written reports.
- 6) Prepare technical reports on alternatives to solving needs through new technology or major system changes.
- 7) Train UDOT staff.

Landscape Architecture - #11

This category of work provides services to ensure transportation projects respond to the context in which they are constructed by providing design solutions that are in harmony with the surrounding environment and the community setting. Consultants providing work under this category must be licensed Landscape Architects, have a working knowledge of roadway engineering principles, and be capable of providing the following work:

- 1) Understand natural systems as they relate to roadway projects and develop design solutions to minimize roadway impacts by providing erosion control, grading, and revegetation plans.
- 2) Recognize the context of transportation projects in manmade or urban environments and develop design solutions that enhance visual quality by integrating design elements into structural components, roadside plantings, and streetscapes. Establish design themes that unify highway elements and incorporate community interests.
- 3) Perform site analyses and visual assessments and provide CADD drawings for landscape, re-vegetation, site design, irrigation, grading, and erosion control plans, and accompanying specifications for various transportation projects.

Major Hydraulic Design - #12

Statement of Qualifications shall provide sufficient detail to demonstrate familiarity with UDOT's Hydrologic & Hydraulic analysis & design procedures and qualifications of the personnel to perform the requested services in the areas listed below.

Work within this category is related to assisting in UDOT's overall infrastructure management efforts and may include small to large projects, or individual tasks. Specific services may include but are not limited to Hydrologic studies, Hydraulic studies, bridge inspection, STIP Planning, cost modeling, database enhancements, training, minor plan package development,

and technical support. The services shall include all equipment and personnel necessary to complete the required tasks.

Materials Testing - #13

Scope:

This category of work is defined as the inspection and testing of construction materials to ensure that work is in conformance with a project's plans and specifications, including the UDOT Materials Manual of Instruction, UDOT Minimum Sampling and Testing Requirements and FHWA eligibility requirements. This work will be as a supplement to the work performed by Department personnel on UDOT projects, or as principle testing facility for Local Government projects.

Testing will be performed in the disciplines of Hot Mix Asphalt, Asphalt Binder, Portland Cement Concrete and Soils. Submitting firms must identify which disciplines they wish to work in.

Qualifications:

Statement of Qualifications shall provide sufficient detail to demonstrate familiarity with UDOT's materials sampling & testing procedures, capability of the materials testing laboratory, and qualifications of the personnel to perform field and laboratory sampling & testing services in the appropriate disciplines.

A firm's personnel listed in Statement of Qualification must be UDOT TTQP certified in each discipline in which they will be conducting materials sampling and testing. UDOT provides certification in the following areas: Embankments and Base, In-place Density, Asphalt, Fresh Concrete, Concrete Strength Testing, Aggregates, Sampling and Density, General Laboratory and SuperPave Mix Design.

Testing Laboratories must have a permanent lab facility located within the state of Utah. Testing Laboratories shall be qualified through the Central Materials Division's Laboratory Qualification Program (LQP) and be listed on the UDOT Materials Division web page as a qualified laboratory.

UDOT qualified labs are required to be AMRL accredited in the AASHTO and ASTM tests listed below, based on submitting discipline. Testing Laboratories must be able to perform the remainder of test methods (UDOT Manual of Instruction) listed below which are not covered by AASHTO accreditation:

Hot Mix Asphalt

AASHTO: T30, T110, T164A, T166, T168, T170, T209, T230, T245, T269,

T275, T287, TP4, PP2, PP19, PP28, MP2.

ASTM: D979, D2726, D2950, D3549, D3665, D3666, D4561, D5506,

D6307. E1274.

UDOT MOI: 941, 945, 946, 950, 954, 957, 958, 960, 981, 982, 983, 995.

Hot Mix Asphalt Aggregate

AASHTO: T11, T19, T21, T24, T27, T84, T85, T96, T104, T112, T195, T242,

T255, T278, T279C, T283, TP33.

ASTM: D4791, D5821.

UDOT MOI: 929, 930, 935, 984.

Portland Cement Concrete

AASHTO: T22, T23, T26, T97, T119, T121, T141, T152, M157 A1, T199.

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Portland Cement Concrete Aggregate

AASHTO: T11, T19, T21, T24, T27, T84, T85, T96, T104, T112, T195, T255,

T283.

Soil

AASHTO: T87, T88, T89, T90, T99D, T100, T176, T180D, T191, T193,

T208, T215, T216, T234, T236, T238, T239, T265, T288, T289,

T290, T291.

UDOT MOI: 919.

UDOT Qualified labs are also required to maintain a current Quality Systems Manual (QSM) with information regarding personnel qualifications, equipment calibrations and QC/QA practices and procedures for ensuring proper sampling, testing and reporting procedures are followed.

All pool-qualified Consultants desiring to provide Materials Testing services to the Department and/or Local Government may be required to provide the following prior to being selected for a project:

- 1) Current AMRL Accreditation Documentation
- 2) Conference Attendee Verification.

Failure to comply with project contract requirements may result in removal from materials testing pool.

Minor Structure Design - #14

Provide engineering services to design, study, analyze, or review <u>minor</u> structures of various types and sizes that may be required for analysis of box culverts, other culvert types, retaining walls, overhead sign structures, structures required for ITS functions on a highway project or engineering study. The designs shall be done in accordance with the applicable UDOT, Local Government, AASHTO, State and Federal requirements.

Partnering Facilitation - #15

The Department is seeking interested firms or Individuals capable of providing Partnering workshop facilitations. Firms must conduct facilitations according to the Utah Department of Transportation / Utah Association of General Contractors Partnering Field Guide. Facilitators must complete the Phase 1 Partnering Training provided by the Utah Department of Transportation. Facilitators will only be added to the UDOT Partnering Facilitators list when they have completed UDOT's Phase –1 Training. Partnering requires on-going commitment. Follow-up workshops may be held as agreed by the Contractor and Engineer.

Pavement Design - #16

Qualifications:

Statement of Qualifications shall provide enough detail to demonstrate experience with the AASHTO 1993 Pavement Design Manual or UDOT Pavement Design Manual. Work will be performed by or supervised by a registered professional engineer, including collection of data, analysis of existing pavement and identification and selection of alternatives.

Consultant must have the capability (or acquire services) to perform sampling and in-situ and laboratory testing of existing subgrade or base materials. Sampling and testing must be performed by a UDOT-qualified laboratory using UDOT-qualified technicians.

Scope of Work:

Designs will be performed in accordance with the UDOT Pavement Management and Design Manual. Each design shall consist of traffic calculations, material coefficients, structural numbers and Life Cycle Cost Analysis.

Traffic data, FWD data and geometric constraints may be supplied by UDOT. Data collection by the consultant may include traffic data, existing soils characteristics, historical climatic information, current pavement FWD and distress data, proposed layer material characteristics and LCCA cost inputs. This data shall be used to design new, reconstructed, or rehabilitated pavement structures.

Any requests for deviations from standard UDOT coefficients shall be identified with reason for their adjustment. All submitted designs shall be bound and sealed by a Professional Engineer licensed in the State of Utah.

Life Cycle Cost Analysis shall be consistent with the practices of the UDOT Pavement Management and Design Manual or FHWA RealCost software, or similar.

If a designer wishes to use other methods for pavement design, besides the UDOT Pavement Management and Design Manual, they can submit a request to the Region Pavement Design Engineer. Some methods include AASHTO 1993 practices, Mechanistic/Empirical practices, Asphalt Institute practices or others.

Planning - #17

This category of work may consist of performing a varied array of transportation planning activities to assist UDOT in determining Utah's future mobility needs and shaping the future transportation system today. Plan recommendations from studies will be used in UDOT's long-range plan system mobility needs, prioritized, and fiscally phased. The consultant may be asked to evaluate existing and future conditions of the state transportation system using forecasting, operational analysis and geographic information systems. Evaluation techniques, methodologies, and software should be consistent with UDOT's systems, state-of-the-practice, or approved by UDOT. Included in this planning category are data collection, Travel Demand Modeling, Simulation/visualizing, design traffic, GIS, Corridor Planning, corridor operations, alternatives analysis, planning level environmental constraints identification, cost determinations, Access Management Agreements, Asset Management evaluations, Community Impact identification, Public Involvement, Bicycle and Pedestrian Planning, Freight Planning, database manipulation, local government coordination and training services.

The Consultant will be required to perform studies managed by Planning staff, augment UDOT Planning Staff with expertise for planning areas described above, develop reports and document studies findings and recommendations. The Consultant may participate in corridor studies, corridor operations analysis, NEPA related documents, the UDOT's long-range plan, intersection operations analysis, level of service analysis, and UDOT's efforts to link Planning to NEPA. These studies may involve individual modes or a combination of modes; Hot Lane, HOV, Toll, Transit, Travel Demand Management, Transportation System Management.

The Consultant may be asked to research or provide state-of-the-practice training to UDOT's planning staff on Travel Demand Modeling, Simulation/visualizing, design traffic, GIS, alternatives analysis, planning level environmental constraints identification, cost determinations, Access Management Agreements, Asset Management evaluations, Community

Impact identification, Public Involvement, database manipulation, development of design traffic, traffic modeling, simulation, capacity analysis, GIS, and environmental processes.

Preconstruction Engineering - #18

This category of work is all encompassing. Consultants may provide a variety of engineering services including the personnel resources, equipment and materials necessary to prepare contract plans, specifications, and estimates or any part(s) thereof in accordance with UDOT's Design Process for each project as defined in the applicable contract. Consultants selected for contracts for this Pool Discipline, will be responsible for providing a quality product. As part of the submitted SOQ, address the QC/QA program that the Consultant will utilize to ensure the quality of the plans, specifications and estimates produced.

Although this work discipline is all encompassing, the Department recommends qualified Consultants submit Statements of Qualifications in the other work disciplines they are qualified for. If there is a specific work discipline that is appropriate for a project, the Preconstruction Engineering Work Discipline may not be used. For example, if the project is for bridge design, the Consultant must be qualified for that work discipline and not be selected from the Preconstruction Engineering Work Discipline.

Public Involvement – Operations/Project/NEPA - #19

The Department is seeking firms or individuals that are capable of providing public involvement and/or public relations services pertaining to UDOT projects, programs and initiatives, as well as for services related to operational public involvement issues and **needs**. Services may be required at locations (regions/projects) throughout the State. Individuals and firms should have experience applying and knowledge regarding the following: The surface transportation industry; civil engineering processes and techniques (highway/road building, design, construction management); environmental policies, processes and issues; project/contract management: context sensitive solution opportunities: local government processes, activities and personnel; basic communication and public relations techniques including the administration and analysis of public opinion research, and excellent writing skills; media relations strategies; public involvement and/or awareness/outreach campaign development tools and techniques, strategies, tactics and implementation; grassroots promotion of project and Departmental goals and messaging; special event coordination, publicity and management; committee development and management; partnering skills to obtain group consensus; public meeting and public hearing organization and facilitation; Website development and maintenance; software programs used to develop publications and graphics.

Research Studies/New Development - #20

The primary focus of the Research Division is to provide problem solving and technical enhancements in areas of concern identified in the "Utah Department of Transportation Strategic Direction". UDOT has a strong tradition of using research to further the goals of the department and is therefore seeking individuals or firms that can assist them.

The Research Division conducts transportation related studies in the following technical and business related areas:

Structures
Geotechnical
Intelligent Transportation
Pavements

Materials Hydraulics Roadway Design Environmental Maintenance Safety

Construction Administration

Planning Customer Satisfaction

Data Collection Traffic

Roadway Condition Data Collection

The Department is interested in contracting with firms or individuals who can carry out specific research tasks, perform analysis on the data gathered, and create the needed deliverables (reports, training, manuals, etc.) related to these research projects.

Right of Way Engineering - #21

Provide engineering services to survey, develop, check, review and certify documents, prepare Right of Way plans and descriptions for parcels associated with proposed construction in accordance with the applicable Mapping and Aerial Photogrammetry Guidelines (latest edition), UDOT and FHWA procedures.

Note: This category does <u>not</u> include Right of Way Services such as: Appraisal, Appraisal Review, Acquisition, Lead Agent, or Relocation. There is a separate Pool for these Right of Way Services. Please contact **Lyle McMillan**, Director of Right of Way at **(801) 965-4331** for more information.

Schedule Analysis and Claims Review - #22

Consultant needs to have expertise in claims avoidance and mitigation. This includes but is not limited to expertise in:

- 1) Reviewing construction baseline schedule analysis for reasonableness. This means that the consultant must be able to review an initial schedule to ensure compliance with the contract and for the reasonableness of activity durations and relationships.
- 2) Reviewing construction progress schedules for accuracy and to identify deviations from plans. The most important aspect of this review is to identify:
 - Deviations from the baseline plan and the previous update.
 - The causes of the deviations.
 - Responsibility for the deviations.
 - The impact of the deviation to the project plan and budget.
 - Potential solutions to the problems.
- Identifying potential construction problems early enough to minimize the impact of the problem.

The consultant will also need to be able to provide training to Department personnel on claims avoidance, schedule and document management, and Primavera software training; including the setup of an effective planning system.

When a claim is submitted, the consultant needs to have expertise to assess:

- 1) The validity of the claim.
- 2) The time and dollar impact of the claim.
- 3) The Department's risks if the cast proceeds to arbitration or court.

Overall, the consultant needs to be able to provide services that help the Department minimize claims through effective schedule and document management; to assess the impact of claims submitted; to assist with claims negotiations; and to assist the Department in preparing and presenting the claims to a dispute review board or in court.

Consultants do not need to meet all of the above criteria. Consultants may be selected to meet specific needs within the requirements listed above.

Subsurface Utility Engineering (SUE) - #23

The Consultant shall be able to provide Subsurface Utility Engineering services for various projects:

- 1) Designating Services Designating means to indicate, by qualified personnel, the horizontal location of underground utilities by the application and interpretation of appropriate non-destructive surface geophysical techniques and reference to established survey control, in accordance with ASCE Guideline 38-02. Must be able to certify accuracy to within +/- 1-foot horizontal tolerance.
- 2) **Locate (Test Hole) Services** Locate means to obtain precise horizontal and vertical position, material type, condition, size and other data that may be obtainable about the utility facility and its surrounding environment through exposure by non-destructive excavation techniques that ensure the integrity of the utility facility by qualified personnel, in accordance with ASCE Guideline 38-02. Must be able to certify accuracy to within +/- 0.1 foot horizontal and vertical tolerances.
- 3) **Data Management** All work shall be processed and output provided in the current versions of MICROSTATION and BENTLEY CADD programs, unless otherwise approved by the Project Manager, and in the current UDOT drafting standards. A final SUE report shall be submitted at the completion of each work order in a Microsoft Excel file as well as hard copy.
- 4) **Certifications and Personnel** All submitted SUE work shall be signed and sealed by a professional engineer licensed in the State of Utah. The Consultant or it's staff members who directly working on the project, shall demonstrate not less than 4 years experience working directly on SUE projects and data collection.

Surveying/Mapping - #24

Provide surveying services on engineering projects on an as-needed basis under the direction of the Department's representative. Survey work may include any or all of the following: alignment, horizontal and vertical control, level surveys, cross-sectioning, topographical surveys, property description searching, locating and surveying section corner searches, survey title work, clearing easements, etc. Surveying services shall meet the requirements of the Mapping and Aerial Photogrammetry Guidelines (latest edition).

Traffic Signals / Roadway Lighting & Sub-Categories - #25 (Sub-Categories Need to Include All Criteria On Page 16)

This category of work provides services for design, construction inspection, and construction maintenance support for traffic signal and roadway lighting projects. The design sub-category includes design of new traffic signals or modification to existing traffic signals, and design of roadway lighting systems for intersections, interchanges, expressways, and freeways. The construction inspection and maintenance sub-category includes signal and lighting inspection support, signal timing and detection maintenance during construction of major roadway projects.

As this Work Discipline has Sub-Categories, the maximum number of pages is seven.

Design

Provide engineering services to design warranted traffic signal and roadway lighting for new, modified, and upgraded locations. Design activities include:

- Site investigation
- Underground and overhead utility location
- Survey mapping
- Coordination with local utilities
- Geotechnical analysis when necessary or when specifying high mast lighting
- Context sensitive solutions in design
- Lighting analysis using AGI32 or equivalent lighting software
- Complete lighting design plans, circuit schematics, control details, and schedules
- Traffic analysis using simulation and capacity analysis software
- Cost/benefit approach to design solutions
- Complete signal design plans, circuit schematics, roadway plans, striping plans, interconnect plans, and schedules.

Perform activities per the UDOT design process and be capable of providing necessary design documents including the environmental study (CAT-EX), right of way plans, utility location plans, design exceptions, cooperative agreements, red-flag analysis, and complete advertisement package (engineer's estimate, construction plans, specifications, M&P). Base design on current State and Federal design standards including:

- MUTCD
- UDOT Standard Drawings and Specifications
- UDOT Signal Design Guidelines
- AASHTO Design Guide
- AASHTO Roadside Design Guide
- AASHTO Roadway Lighting Design Guide
- Highway Capacity Manual
- ITE Manual of Traffic Signal Design.

Submit completed project plans within established time frames, and be available to respond to questions during the design and construction phases of the project. Complete all project design plans per UDOT CADD Standards. Prepare bid documents in accordance with UDOT advertisement process. Provide accurate "Record Document" drawings of constructed projects.

Construction Inspection and Maintenance

Provide signal and lighting construction inspection and maintenance support during construction of major roadway projects. The Construction Inspection and maintenance activities include:

- Signal and lighting inspection
- Signal timing analysis and recommendations
- Field adjustments to timing plans under UDOT direction and approval
- Coordination of activities with UDOT Resident Engineer and Contractor
- Signal detection maintenance controller level adjustments, video detection programming, temporary signal layout, cabinet wiring changes, and detection loop splicing.

Signal and Lighting Construction Inspection

Ensure signal and lighting projects are constructed per plan, specifications, and design standards listed above. Coordinate all inspection efforts with Resident Engineer assigned to the project, and the Region Signal Maintenance Supervisor. Signal and lighting inspection requires understanding of national standards and codes referenced in UDOT specifications including: NEMA, NEC, UL, AASHTO, and ANSI.

Consultant performing construction inspection duties must be a State Licensed Electrician, Licensed Electrical Engineer, Licensed Civil Engineer with Electrical Distribution experience, or qualified Electronics Technician with IMSA Level I, II, or III signal maintenance certification.

Signal Maintenance Support

Provide support and assistance to UDOT staff in making modifications and performing system maintenance functions to controller timing and vehicle detection systems. Signal Maintenance support requires a complete understanding of cabinet drawings, lighting plans, and field electronics equipment operations.

Consultant performing signal timing and detection maintenance must be a State Licensed Civil Engineer, Licensed Electrician or qualified Electronics Technician with IMSA Level I, II, or III signal maintenance certification. Consultant must successfully complete UDOT signal and lighting splice training and hold a valid certification. This activity also requires proficiency with electronic signal components used by UDOT including: Econolite, Eagle, and Peek controllers; various types of intrusive and non-intrusive vehicle detection; and utilizing signal timing software.

Follow UDOT guidelines and procedures, be available 24 hours a day, 7 days a week, 365 days a year. Respond within 12 hours of request from UDOT. Work closely with the Contractor and Resident Engineer to ensure quick and efficient response and proper scheduling of needed changes. Changes to signal timing will be directed and approved by UDOT only.

Value Engineering - #26

Value Engineering studies may be required at one or more of the following project phases: Initial Concepts, Comparison of Alternates, or 30-40% Design. Selected Consultants may organize, staff and facilitate project specific Multi-Disciplined teams using competent personnel experienced in design, right-of-way, maintenance and operation of highways, bridges, public transportation, traffic operation and other related fields. The Consultant shall present the team staffing in its entirety for review and approval by the Department. All such submittals shall include a detailed description of work experience and credentials of each proposed team member. Selected Consultants will be required to establish project specific VE Quality Control Plan and Procedures. Objectives and Tasks may include: Preparation and Analysis, VE Study, Reports and Presentations. The Consultant will need to have the personnel required to provide a team leader and expert team members as needed to fill a mixed Value Engineering team of UDOT and consultant personnel. The Consultant shall be responsible to ensure that all personnel proposed under this RFQ are qualified through training, experience, and appropriate certification for the tasks assigned and shall have a working knowledge of Department standard practices. Value Engineering Consultant Team Leader will need to meet the following requirements: 1) Shall be a Certified Value Specialist (CVS), certified by the society of American Value Engineers (SAVE), 2) Be a registered Professional Engineer, 3) Have extensive experience in the planning, design, and construction of highways and bridges. Value Engineering Team Members will also need to meet the minimum specific personnel experience

requirements in their respective areas on expertise: 1) Construction - 10 years in the supervision of major highway and bridge construction projects as project engineer or contractor's superintendent, 2) Design - Registration as a Professional Engineer and 10 years experience in the design of (a) highway projects (for studies primarily involving highway improvements) or (b) structures (for studies primarily involving bridges or retaining walls), 3) Maintenance - 10 years responsible charge of a major maintenance program of city, county or state transportation system, 4) Right-of-way - 5 years experience in R/W administration, land management, abstract and title work, sale, acquisition or appraisal of real-estate, of which 3 years must be Government related, 5) Other - Other experienced team members, such as drainage engineers, traffic engineers, geotechnical engineers, and other specialists may be required to provide a project specific team.

Visualization - #27

Visualizations may include two-dimensional (2-D) photo-simulations such as photographic renderings based on artistic interpretation, three-dimensional (3-D) photo montage-simulations based on existing and proposed digital terrain modeling, four-dimensional (4-D) urban/animated/real-time simulations based on motion within a virtual model, or other project related information.

Describe your capability to perform the work. Identify your ability to perform 2-D, 3-D, or 4-D graphical visualizations. Refer to the <u>Essentials of Visualization</u> below. Describe any unique qualifications you have to perform this type of work.

In addition to the standard SOQ requirements, an SOQ submittal for the Visualization Work Discipline will require an additional separate submittal by April 10, 2007 at 11:00 a.m. The submittal should be one copy of a Video, CD, or DVD, with examples of your deliverables in 2-D, 3-D, or 4-D. The deliverables should be no longer than 5 minutes in length. This submittal should be delivered to Gaye Hettrick at UDOT Engineering Services, 4501 South 2700 West, Salt Lake City, UT 84119 (4th Floor North side of the Calvin Rampton Building) by the deadline or the Consultant's Visualization Work Discipline SOQ will be considered non-responsive and will be disqualified.

<u>Essentials of Visualization</u> – The following definitions are provided for clarification purposes and to distinguish among various visualization components available.

2-D Graphics: Photo-simulations are simulations or images that are representative but may not be accurate. These are any static or 2-dimensional images that portray the spatial relationship of an object with three dimensions.

Renderings or Artist's Conceptual Simulation—either hand-drawn or prepared using a computer image that is created by drawing or "painting in" proposed new elements on a photographic image or video frame called a "base image" to generate a near photographic image of a proposed transportation feature. Base images can be converted from photographs by using a scanner or image capture boards for video. This process does not use *x*, *y*, *z* coordinate locations or digitally merging composite images.

Image Paint—a generic term used to characterize computer-based software (such as PhotoShop) that is used to create, modify, or edit digital images. Image editing has application in all 3-D image work and some application in frame-by-frame 4-D editing.

Note: It is very important to understand that painted or edited images by themselves are not based on geometrically accurate elements and that the resulting images may not truly reflect the actual final outcome of the transportation feature it portrays. The quality and level of realism

achieved depends on the artistic skill of the artist and the quality of the base image used.

3-D Graphics: 3-D photo-simulations are simulations based on a photographic montage and 3-dimensional modeling of geographic elevation information with other associated pertinent information that is representative and accurate.

Composite Image Simulation—merging two or more images that have the same viewing station/location defined by x, y, z coordinates and perspective parameters. Composite static images most frequently involve merging photographic or video base images for which the camera location and settings are known and/or calculated. These are then merged or overlaid with a 3-D computer image that has been generated using the real world location and settings for the virtual camera (computer camera). In this process, the background image must be taken so that the geographic location parameter, the viewpoint, the camera settings, and the actual size of some of the objects in the image are known. This is very important in that when changes are introduced (proposed transportation features) they can be matched to provide geometrically and dimensionally accurate images.

A 3-D computer model is used to generate a perspective using the same coordinate camera location and camera settings as those of the original background or base image. These two images are then overlaid using control points to create the final composite image. This method provides the most visually correct, accurate, and defensible representation possible. With proficiency and care, the range of error is generally less than two percent. (Several other steps are also involved such as material definitions and material rendering to complete the final composite image.)

4-D Graphics: Urban simulations, animated simulations, and real-time simulations are simulations based on motion and/or real-time movement within a virtual model. Animated 4-D incorporates a wide range of dynamic imagery in a series of 3-D images that are sequentially related in space and time. The time reference is defined as the fourth dimension.

Urban Simulation or "Real-Time" Simulated Graphics—the ability of a computer system to generate, display, and update images in a continuous rendering mode. Real-time provides complete movement within the virtual model without pre-selecting a specified path. Rendering occurs simultaneously as movement is performed.

4-D applications include:

Video: the unedited recording of existing site conditions using a video camera. Simulated Phase Change: the process of illustrating that occurs from an existing base image condition to the proposed composite image condition from the same viewpoint and saved as a video sequence.

Animation: sequence of composite images that when played at specific speeds will produce the illusion of motion.

Urban Simulation or "Real-Time" Technology: an innovative tool for interactive urban/transportation planning, consensus building, public education, and conflict resolution. Real-time simulation includes adaptable database management systems and an optimized desk top PC and web-enabled system configuration, all seamlessly integrated under a universal fourth dimension of time. Besides the common real-time 3-D interactive capabilities, real time provides the ability to control the fourth dimension of time and to integrate time-based

intelligence with existing information databases, such as GIS and other IT systems.

Real-time applications are an ideal solution for visualizing dynamic transportation operations that are complex within changing environments. Additionally, real-time applications are extensible with the ability to associate information from databases (such as GIS and Oracle) with the 3-D graphic entities located within the visual database. This enables the user to identify and query an associated database for object attributes via "3-D object picking." URLs and web-enabled applications can also be easily embedded with the 3-D graphic entities. This makes an effective decision support and knowledge management tool to serve the various needs of this undertaking.

Contact for additional information:

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